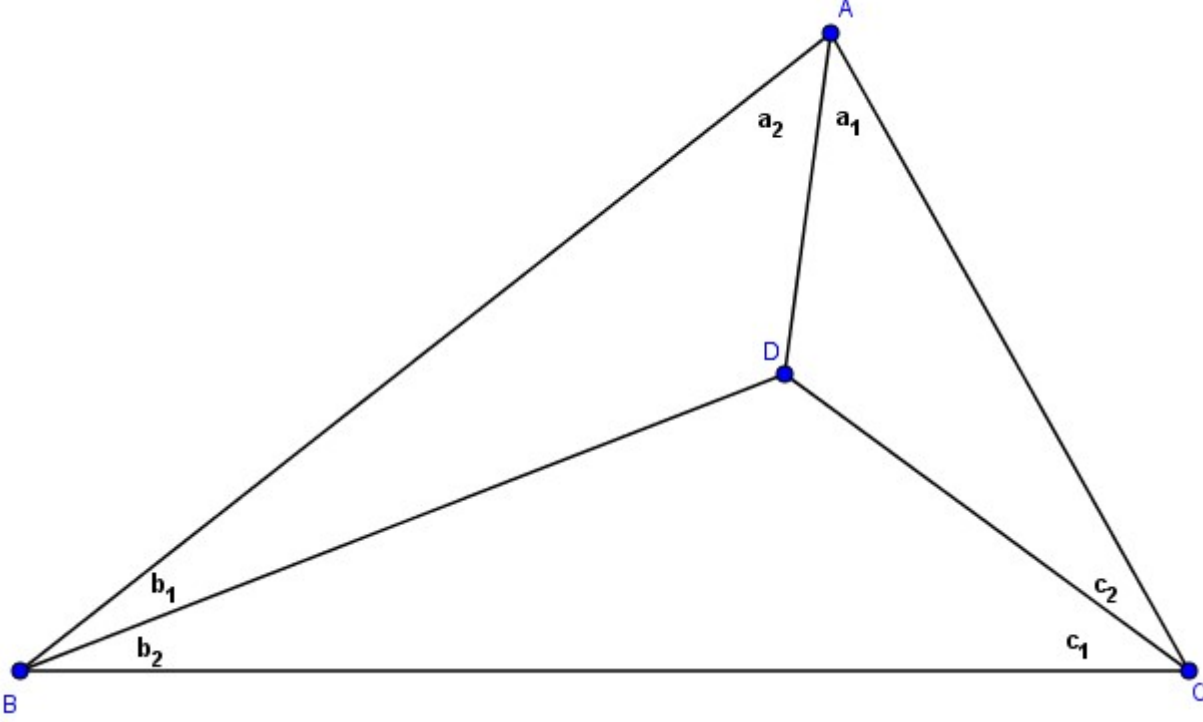


## Özel Açı Sorularını İnceleme ve Bazılarının Genellemesi...

Aşağıdaki şekillerde "Bir ABC üçgeninin iç bölgesindeki bir D noktasının köşelere birleştirilmesiyle, köşelerde oluşan 6 tane tam sayılı Özel Açılı Soruları" na karşılık gelen "sıralı (a1, a2, b1, b2, c1, c2) 6'larını bulmak için Python programlama dilini kullandım. Bu sayede her sıralı 6'lı bir "özel açı sorusu"na karşılık geldi.



Python kodlarını yazarken, dayanak olarak "Trigonometrik Ceva Teoremi"ni kullandım.

O da "1 indisli açılarının sinüsleri çarpımı, 2 indisli açılarının sinüsleri çarpımına eşittir..."; yani " $\sin a1 \cdot \sin b1 \cdot \sin c1 = \sin a2 \cdot \sin b2 \cdot \sin c2$ " dir

**Bu teoremi ispatlayalım:**

DBC, DAC ve DAB üçgenlerinde sırayla Sinüs Teoremini alt alta yazalım:

$$\frac{\sin c1}{\sin b2} = \frac{|BD|}{|CD|}$$

$$\frac{\sin a1}{\sin c2} = \frac{|CD|}{|AD|}$$

$$\frac{\sin b1}{\sin a2} = \frac{|AD|}{|BD|}$$

Bu eşitlikleri taraf-tarafa çarpalım:

$$\frac{\sin c1}{\sin b2} \cdot \frac{\sin a1}{\sin c2} \cdot \frac{\sin b1}{\sin a2} = \frac{|BD|}{|CD|} \cdot \frac{|CD|}{|AD|} \cdot \frac{|AD|}{|BD|} = 1$$

Buradan da;  $\boxed{\sin a1 \cdot \sin b1 \cdot \sin c1 = \sin a2 \cdot \sin b2 \cdot \sin c2}$  bulunur.

Bu üçgenler Python programlama dilinde yazdığım basit ve kısa bir kod dosyası ile elde ettim. Programı çalıştırarak elde edilen açı değerlerini, yaklaşık 22 sayfalık bir pdf dosyasında 3800 den çok soruyu da <http://www.hasankorkmaz-ifl.com> adresindeki sayfamd koydum. <http://www.hasankorkmaz-ifl.com/dosyalar/yaptigim-calismalar/ozel-aci-sorusu-sirali-6-lilari.pdf> adresinden indirerek inceleyebilir kendinizi test edebilirsiniz, bakalım kaç tanesini çözebileceksiniz? :)

İşte Python kodları!

```
#-*- coding:cp1254 -*-
import math;
p=math.pi;
for b1 in range(1,90):
    for b2 in range(b1,90):
        for c1 in range(1,90):
            for c2 in range(1,90):
                t=180-b1-b2-c1-c2
                for a1 in range(1,t):
                    s1=math.sin(a1*p/180)*math.sin(b1*p/180)*math.sin(c1*p/180);
                    s2=math.sin((t-a1)*p/180)*math.sin(b2*p/180)*math.sin(c2*p/180);
                    s1=math.trunc(10**15*s1);s2=math.trunc(10**15*s2);
                    if s1==s2:
                        yedek=set([a1,t-a1,b1,b2,c1,c2]);l=len(yedek);
                        if l>=4:
                            print"%d,%d,%d,%d,%d,%d"%(a1,t-a1,b1,b2,c1,c2)
```

hepsi bu!

**Not:** Program kod dosyasında **b1**, **b2**, **c1** ve **c2** değerleri için iç-içe 4 döngü kullandım.

**t=180-b1-b2-c1-c2** ile A köşesindeki açı değeri **t** değişkenine atadım.

**for a1 in range(1,t):** ile a1 değişkeni 1 den, A köşesindeki açı değeri olan **t** ye kadar bir döngü kullandım. Doğal olarak ta **t-a1** değeri **a2** olacaktır.

**s1** değişkenine a1, b1, c1 değerlerinin sinüsler çarpımı atandı.

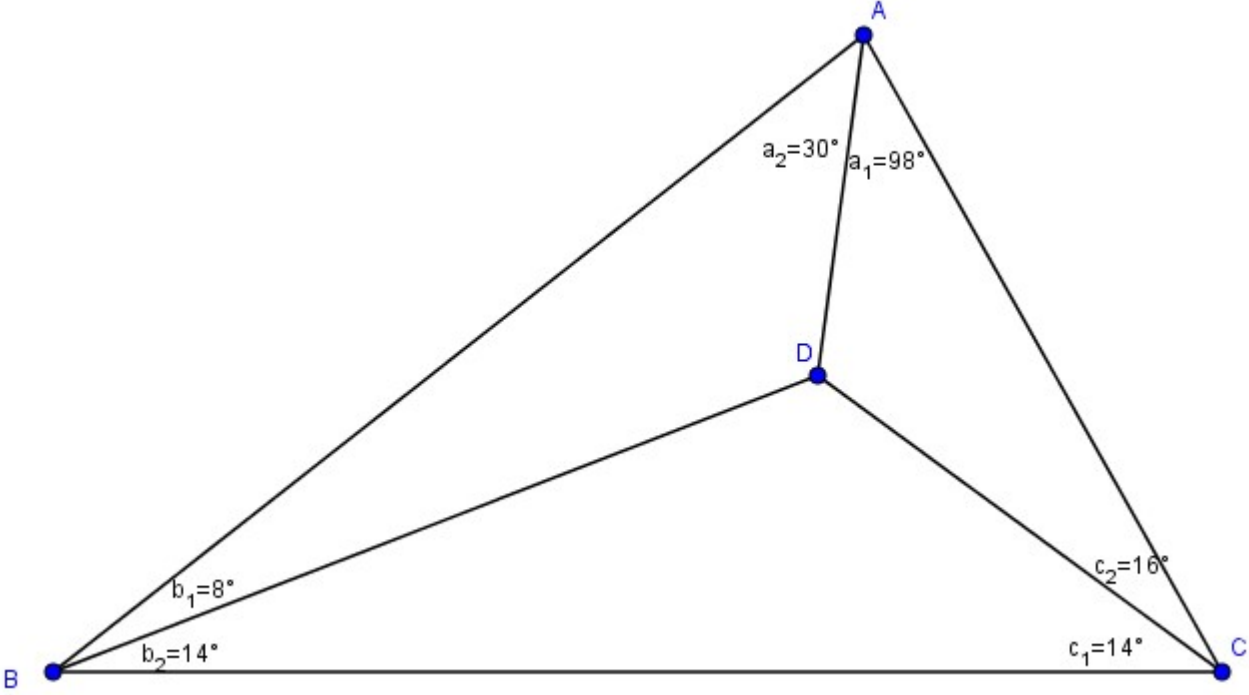
**s2** değişkenine de a2, b2, c2 değerlerinin sinüsler çarpımı atandı.

**if s1==s2:** komutu ile bu değerlerin birbirine eşit olup olmadığı denetlendi.

Eşit olmaları durumunda hemen sonuçları yazdırmadım; çünkü bu durumda açı değerleri örneğin 1,1,1,1,88,88 gibi veya 20,20,40,40,30,30 gibi orta okul öğrencilerinin bile kolayca çözebileceği on binlerce sıralı 6'lıları da işin içine katacaktık.

Bunu önlemek için yani sadece "zor açı sorularını" elde etmek için sıralı 6'lıları, diziden kümeye dönüştürüp kümenin eleman sayısını 4 veya 4 ten çok olanları aldık. Bunu da `yedek=set([a1,t-a1,b1,b2,c1,c2]);l=len(yedek);` komutlarıyla yaptım.

**Örneğin;** (98,30,8,14,14,16) sıralı 6'lısına karşılık gelen özel açı sorusu aşağıdaki şekilde görülüyor. Şekillerdeki açılar büyüklük itibariyle orantılı çizilmemiştir.



İşte bu soruyu sorarken sıralı altılılardan her hangi iki köşesindeki 4 açı verilip, üçüncü köşenin bir açısı sorulabilir.

Mesela yukarıdaki şekilde  $b_1=8^\circ$ ,  $b_2=14^\circ$ ,  $c_1=14^\circ$ ,  $c_2=16^\circ$  verilerek "mDAB= $a_2$  kaç derecedir?" diye sorulabilir. İşte alın size bir "**Matematik Olimpiyat Sorusu!**"

Aşağıda bu sorunun Geogebra'da yaptığım çözümün son sayfa görüntüsünü verdim.

Şekilde verilenlere göre DAB açısı kaç derecedir?

Önce BDE eşkenar üçgenini çizelim ve bazı tespit ve hesaplamalar yapalım.

CDE üçgeninin E açısı  $16^\circ$  olduğundan C,A,E noktaları doğrusal olmak zorundadır!

BAE açısı, ABC üçgeninin dış açısı olduğundan;  $m(\text{BAE})=22^\circ+30^\circ=52^\circ$  dir.

Buradan da, EBA üçgeni ikizkenardır.

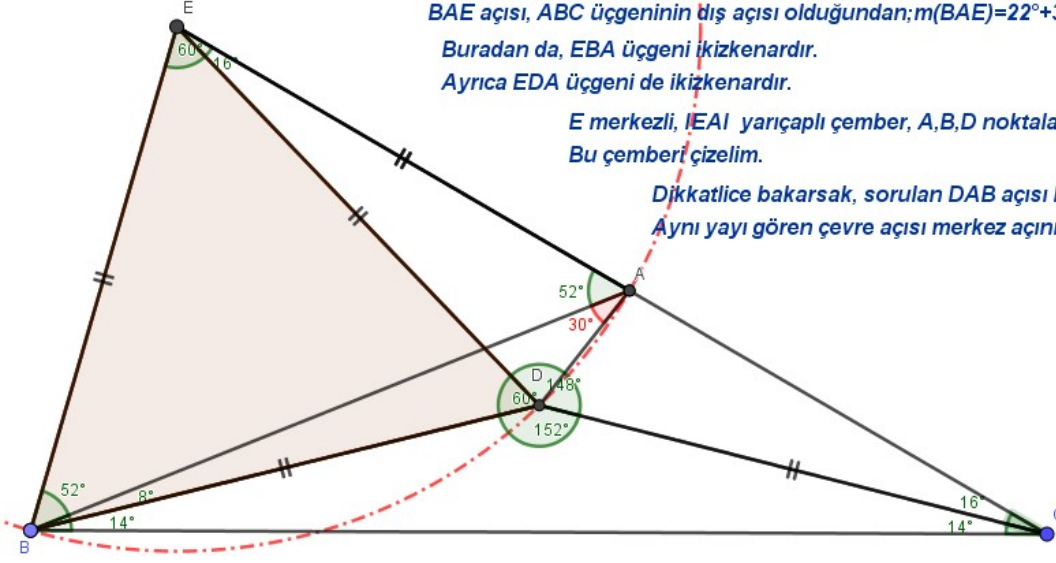
Ayrıca EDA üçgeni de ikizkenardır.

E merkezli, |EA| yarıçaplı çember, A,B,D noktalarından geçer.

Bu çemberi çizelim.

Dikkatlice bakarsak, sorulan DAB açısı BD yayını gören çevre açıdır.

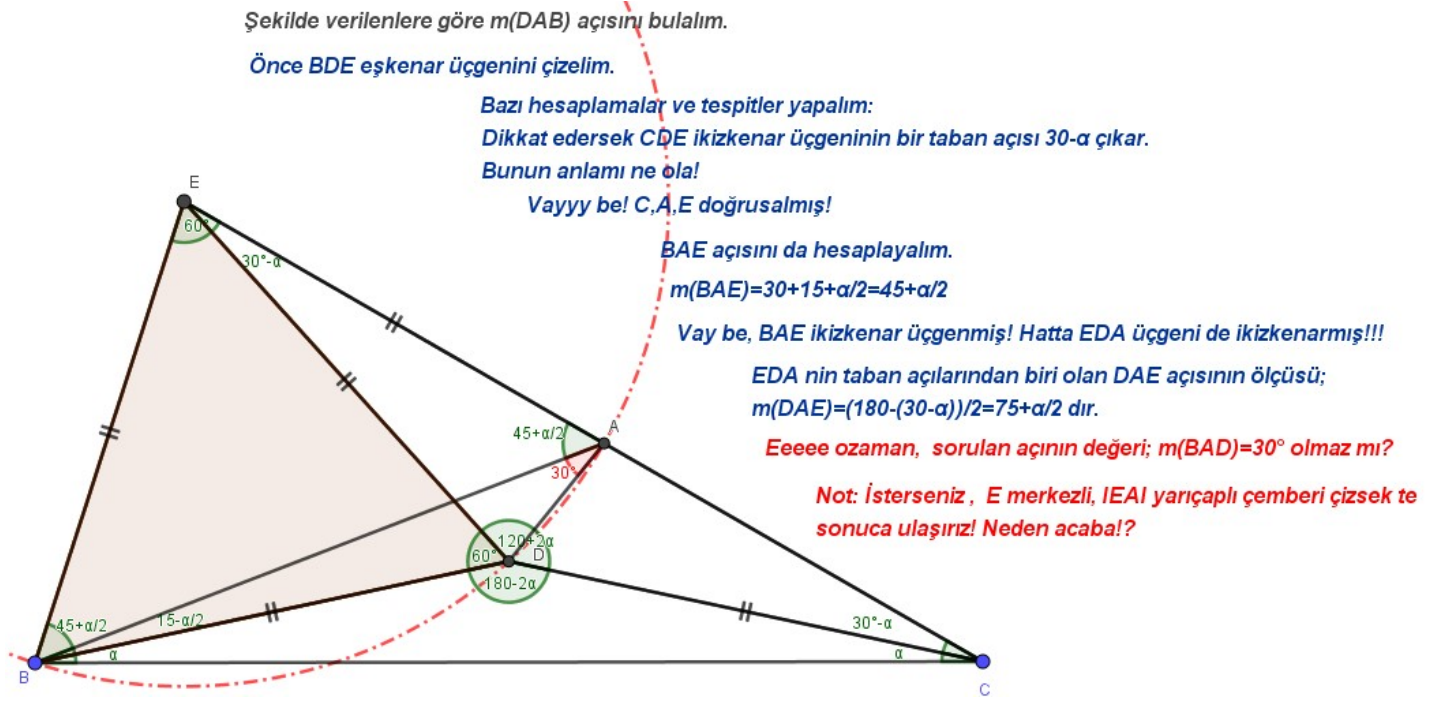
Aynı yayı gören çevre açısı merkez açının yarısı olacağından  $m(\text{DAB})=30^\circ$  dir.



Hele bu özel sorudan hareketle,  $\alpha$  parametresi  $0^\circ$  ile  $30^\circ$  arasında olmak üzere bir genelleme yaparak ,  $b_1=15^\circ-\alpha/2^\circ$ ,  $b_2=\alpha^\circ$ ,  $c_1=\alpha^\circ$ ,  $c_2=30-\alpha^\circ$  verilerek "mDAB=a2 kaç derecedir?" sorusunun her seferinde cevabının  $30^\circ$  çıkması, çok hoş olmaz mı?

Böylece  $\alpha$  parametresine bağlı  $(105-\alpha/2, 30, 15-\alpha/2, \alpha, \alpha, 30-\alpha)$  soru şablonunu elde ederiz ki, bu şablonda  $\alpha$  ya her değer verdiğimizde ( $\alpha$  tam sayı olmak zorunda da değil!) sınırsız sayıda "olimpiyat seviyesinde zor açı soruları" elde ederiz.

Aşağıda bu sorunun genellemenin Geogebra'da yaptığım çözümün son sayfa görüntüsünü verdim.



Görüldüğü gibi sonuç  $\alpha$  parametresinden bağımsız ve daima sabit ve  $30^\circ$  çıkıyor!

Amacımız, bu sıralı 6'lıları inceleyip "açılar arasında ilişki kurarak oluşan bu kurala uyan başka sorular var mı?" sorusundan hareketle "acaba genelleme yapılabilir mi?", en önemlisi de yaptığımız "genellemenin doğruluğunun ispatlayabilir miyiz?!" sorularına cevap aramaktır.

İşte programın çalışması sonucu elde ettiğim sıralı 6'lılar.

Burada her bir sıralı 6'lıda 1. si  $a_1$ , 2. si  $a_2$ , 3. s.  $b_1$ , 4. s.  $b_2$ , 5. si  $c_1$ , 6. si  $c_2$  dir.

Seçin birini ya da birkaçını uğraşın bakalım çözebilecekleriniz var mı? Varsa kaç tane?

Hadi kolay gelsin! :)

61,58,1,1,29,30	87,29,1,2,30,31	91,30,1,28,28,2	59,30,1,29,58,3
61,30,1,1,29,58	30,31,1,2,87,29	91,2,1,28,28,30	59,3,1,29,58,30
58,61,1,1,30,29	30,29,1,2,87,31	61,31,1,28,56,3	30,1,1,29,58,61
58,29,1,1,30,61	29,30,1,2,89,29	61,3,1,28,56,31	58,30,1,29,59,3
30,61,1,1,58,29	29,29,1,2,89,30	56,31,1,28,61,3	58,3,1,29,59,30
30,29,1,1,58,61	61,31,1,3,56,28	56,3,1,28,61,31	30,31,1,29,87,2
29,58,1,1,61,30	61,28,1,3,56,31	89,30,1,29,29,2	30,2,1,29,87,31
29,30,1,1,61,58	59,30,1,3,58,29	89,2,1,29,29,30	29,30,1,29,89,2
91,30,1,2,28,28	59,29,1,3,58,30	58,61,1,29,30,1	29,2,1,29,89,30
91,28,1,2,28,30	58,30,1,3,59,29	87,31,1,29,30,2	91,28,1,30,28,2
89,30,1,2,29,29	58,29,1,3,59,30	87,2,1,29,30,31	91,2,1,30,28,28
89,29,1,2,29,30	56,31,1,3,61,28	58,1,1,29,30,61	61,58,1,30,29,1
87,31,1,2,30,29	56,28,1,3,61,31	30,61,1,29,58,1	89,29,1,30,29,2

89,2,1,30,29,29  
61,1,1,30,29,58  
59,29,1,30,58,3  
59,3,1,30,58,29  
58,29,1,30,59,3  
58,3,1,30,59,29  
29,58,1,30,61,1  
29,1,1,30,61,58  
29,29,1,30,89,2  
29,2,1,30,89,29  
87,29,1,31,30,2  
87,2,1,31,30,29  
61,28,1,31,56,3  
61,3,1,31,56,28  
56,28,1,31,61,3  
56,3,1,31,61,28  
30,29,1,31,87,2  
30,2,1,31,87,29  
61,30,1,58,29,1  
61,1,1,58,29,30  
29,30,1,58,61,1  
29,1,1,58,61,30  
58,29,1,61,30,1  
58,1,1,61,30,29  
30,29,1,61,58,1  
30,1,1,61,58,29  
104,30,2,2,14,2  
104,28,2,2,14,30  
30,104,2,2,28,14  
62,56,2,2,28,30  
62,30,2,2,28,56  
28,104,2,2,30,14  
56,62,2,2,30,28  
56,28,2,2,30,62  
30,62,2,2,56,28  
30,28,2,2,56,62  
28,56,2,2,62,30  
28,30,2,2,62,56  
92,30,2,4,26,26  
92,26,2,4,26,30  
88,30,2,4,28,28  
88,28,2,4,28,30  
84,32,2,4,30,28  
84,28,2,4,30,32

44,74,2,4,42,14  
44,14,2,4,42,74  
42,74,2,4,44,14  
42,14,2,4,44,74  
30,32,2,4,84,28  
30,28,2,4,84,32  
28,30,2,4,88,28  
28,28,2,4,88,30  
62,32,2,6,52,26  
62,26,2,6,52,32  
58,30,2,6,56,28  
58,28,2,6,56,30  
56,30,2,6,58,28  
56,28,2,6,58,30  
52,32,2,6,62,26  
52,26,2,6,62,32  
62,50,2,8,46,12  
62,12,2,8,46,50  
46,50,2,8,62,12  
46,12,2,8,62,50  
94,24,2,10,34,16  
94,16,2,10,34,24  
62,50,2,12,46,8  
62,8,2,12,46,50  
46,50,2,12,62,8  
46,8,2,12,62,50  
30,104,2,14,28,2  
28,104,2,14,30,2  
44,74,2,14,42,4  
44,4,2,14,42,74  
42,74,2,14,44,4  
42,4,2,14,44,74  
94,24,2,16,34,10  
94,10,2,16,34,24  
94,16,2,24,34,10  
94,10,2,24,34,16  
92,30,2,26,26,4  
92,4,2,26,26,30  
62,32,2,26,52,6  
62,6,2,26,52,32  
52,32,2,26,62,6  
52,6,2,26,62,32  
104,30,2,28,14,2  
104,2,2,28,14,30

30,91,2,28,28,1  
88,30,2,28,28,4  
88,4,2,28,28,30  
28,91,2,28,30,1  
56,62,2,28,30,2  
84,32,2,28,30,4  
84,4,2,28,30,32  
56,2,2,28,30,62  
30,62,2,28,56,2  
58,30,2,28,56,6  
58,6,2,28,56,30  
30,2,2,28,56,62  
56,30,2,28,58,6  
56,6,2,28,58,30  
30,32,2,28,84,4  
30,4,2,28,84,32  
28,30,2,28,88,4  
28,4,2,28,88,30  
30,89,2,29,29,1  
30,1,2,29,29,89  
29,89,2,29,30,1  
29,1,2,29,30,89  
104,28,2,30,14,2  
104,2,2,30,14,28  
92,26,2,30,26,4  
92,4,2,30,26,26  
62,56,2,30,28,2  
88,28,2,30,28,4  
88,4,2,30,28,28  
62,2,2,30,28,56  
31,87,2,30,29,1  
31,1,2,30,29,87  
29,87,2,30,31,1  
29,1,2,30,31,87  
58,28,2,30,56,6  
58,6,2,30,56,28  
56,28,2,30,58,6  
56,6,2,30,58,28  
28,56,2,30,62,2  
28,2,2,30,62,56  
28,28,2,30,88,4  
28,4,2,30,88,28  
84,28,2,32,30,4  
84,4,2,32,30,28

62,26,2,32,52,6  
62,6,2,32,52,26  
52,26,2,32,62,6  
52,6,2,32,62,26  
30,28,2,32,84,4  
30,4,2,32,84,28  
62,12,2,50,46,8  
62,8,2,50,46,12  
46,12,2,50,62,8  
46,8,2,50,62,12  
62,30,2,56,28,2  
62,2,2,56,28,30  
28,30,2,56,62,2  
28,2,2,56,62,30  
56,28,2,62,30,2  
56,2,2,62,30,28  
30,28,2,62,56,2  
30,2,2,62,56,28  
44,14,2,74,42,4  
44,4,2,74,42,14  
42,14,2,74,44,4  
42,4,2,74,44,14  
31,30,2,87,29,1  
31,1,2,87,29,30  
29,30,2,87,31,1  
29,1,2,87,31,30  
30,29,2,89,29,1  
30,1,2,89,29,29  
29,29,2,89,30,1  
29,1,2,89,30,29  
63,54,3,3,27,30  
63,30,3,3,27,54  
54,63,3,3,30,27  
54,27,3,3,30,63  
30,63,3,3,54,27  
30,27,3,3,54,63  
27,54,3,3,63,30  
27,30,3,3,63,54  
93,48,3,6,18,12  
93,12,3,6,18,48  
81,51,3,6,24,15  
93,30,3,6,24,24  
93,24,3,6,24,30  
81,15,3,6,24,51

87,30,3,6,27,27  
87,27,3,6,27,30  
81,33,3,6,30,27  
81,27,3,6,30,33  
24,51,3,6,81,15  
30,33,3,6,81,27  
30,27,3,6,81,33  
24,15,3,6,81,51  
27,30,3,6,87,27  
27,27,3,6,87,30  
75,51,3,9,30,12  
75,12,3,9,30,51  
66,48,3,9,39,15  
75,30,3,9,39,24  
75,24,3,9,39,30  
66,15,3,9,39,48  
54,51,3,9,48,15  
63,33,3,9,48,24  
63,24,3,9,48,33  
54,15,3,9,48,51  
48,51,3,9,54,15  
57,30,3,9,54,27  
57,27,3,9,54,30  
48,15,3,9,54,51  
54,30,3,9,57,27  
54,27,3,9,57,30  
48,33,3,9,63,24  
48,24,3,9,63,33  
39,48,3,9,66,15  
39,15,3,9,66,48  
30,51,3,9,75,12  
39,30,3,9,75,24  
39,24,3,9,75,30  
30,12,3,9,75,51  
93,48,3,12,18,6  
93,6,3,12,18,48  
75,51,3,12,30,9  
93,24,3,12,30,18  
93,18,3,12,30,24  
75,9,3,12,30,51  
75,27,3,12,42,21  
75,21,3,12,42,27  
30,51,3,12,75,9  
42,27,3,12,75,21

42,21,3,12,75,27  
30,9,3,12,75,51  
81,51,3,15,24,6  
81,6,3,15,24,51  
66,48,3,15,39,9  
81,24,3,15,39,18  
81,18,3,15,39,24  
66,9,3,15,39,48  
54,51,3,15,48,9  
69,27,3,15,48,18  
69,18,3,15,48,27  
54,9,3,15,48,51  
48,51,3,15,54,9  
63,24,3,15,54,21  
63,21,3,15,54,24  
48,9,3,15,54,51  
54,24,3,15,63,21  
54,21,3,15,63,24  
39,48,3,15,66,9  
39,9,3,15,66,48  
48,27,3,15,69,18  
48,18,3,15,69,27  
24,51,3,15,81,6  
39,24,3,15,81,18  
39,18,3,15,81,24  
24,6,3,15,81,51  
93,24,3,18,30,12  
93,12,3,18,30,24  
81,24,3,18,39,15  
81,15,3,18,39,24  
69,27,3,18,48,15  
69,15,3,18,48,27  
48,27,3,18,69,15  
48,15,3,18,69,27  
39,24,3,18,81,15  
39,15,3,18,81,24  
75,27,3,21,42,12  
75,12,3,21,42,27  
63,24,3,21,54,15  
63,15,3,21,54,24  
54,24,3,21,63,15  
54,15,3,21,63,24  
42,27,3,21,75,12  
42,12,3,21,75,27

93,30,3,24,24,6  
93,6,3,24,24,30  
93,18,3,24,30,12  
93,12,3,24,30,18  
75,30,3,24,39,9  
81,18,3,24,39,15  
81,15,3,24,39,18  
75,9,3,24,39,30  
63,33,3,24,48,9  
63,9,3,24,48,33  
63,21,3,24,54,15  
63,15,3,24,54,21  
48,33,3,24,63,9  
54,21,3,24,63,15  
54,15,3,24,63,21  
48,9,3,24,63,33  
39,30,3,24,75,9  
39,9,3,24,75,30  
39,18,3,24,81,15  
39,15,3,24,81,18  
87,30,3,27,27,6  
87,6,3,27,27,30  
54,63,3,27,30,3  
81,33,3,27,30,6  
81,6,3,27,30,33  
54,3,3,27,30,63  
75,21,3,27,42,12  
75,12,3,27,42,21  
69,18,3,27,48,15  
69,15,3,27,48,18  
30,63,3,27,54,3  
57,30,3,27,54,9  
57,9,3,27,54,30  
30,3,3,27,54,63  
54,30,3,27,57,9  
54,9,3,27,57,30  
48,18,3,27,69,15  
48,15,3,27,69,18  
42,21,3,27,75,12  
42,12,3,27,75,21  
30,33,3,27,81,6  
30,6,3,27,81,33  
27,30,3,27,87,6  
27,6,3,27,87,30

93,24,3,30,24,6  
93,6,3,30,24,24  
63,54,3,30,27,3  
87,27,3,30,27,6  
87,6,3,30,27,27  
63,3,3,30,27,54  
75,24,3,30,39,9  
75,9,3,30,39,24  
57,27,3,30,54,9  
57,9,3,30,54,27  
54,27,3,30,57,9  
54,9,3,30,57,27  
27,54,3,30,63,3  
27,3,3,30,63,54  
39,24,3,30,75,9  
39,9,3,30,75,24  
27,27,3,30,87,6  
27,6,3,30,87,27  
81,27,3,33,30,6  
81,6,3,33,30,27  
63,24,3,33,48,9  
63,9,3,33,48,24  
48,24,3,33,63,9  
48,9,3,33,63,24  
30,27,3,33,81,6  
30,6,3,33,81,27  
93,12,3,48,18,6  
93,6,3,48,18,12  
66,15,3,48,39,9  
66,9,3,48,39,15  
39,15,3,48,66,9  
39,9,3,48,66,15  
81,15,3,51,24,6  
81,6,3,51,24,15  
75,12,3,51,30,9  
75,9,3,51,30,12  
54,15,3,51,48,9  
54,9,3,51,48,15  
48,15,3,51,54,9  
48,9,3,51,54,15  
30,12,3,51,75,9  
30,9,3,51,75,12  
24,15,3,51,81,6  
24,6,3,51,81,15



63,30,3,54,27,3  
63,3,3,54,27,30  
27,30,3,54,63,3  
27,3,3,54,63,30  
31,61,3,56,28,1  
31,1,3,56,28,61  
28,61,3,56,31,1  
28,1,3,56,31,61  
30,59,3,58,29,1  
30,1,3,58,29,59  
29,59,3,58,30,1  
29,1,3,58,30,59  
30,58,3,59,29,1  
30,1,3,59,29,58  
29,58,3,59,30,1  
29,1,3,59,30,58  
31,56,3,61,28,1  
31,1,3,61,28,56  
28,56,3,61,31,1  
28,1,3,61,31,56  
54,27,3,63,30,3  
54,3,3,63,30,27  
30,27,3,63,54,3  
30,3,3,63,54,27  
103,30,4,4,13,26  
103,26,4,4,13,30  
30,103,4,4,26,13  
64,52,4,4,26,30  
64,30,4,4,26,52  
26,103,4,4,30,13  
52,64,4,4,30,26  
52,26,4,4,30,64  
30,64,4,4,52,26  
30,26,4,4,52,64  
26,52,4,4,64,30  
26,30,4,4,64,52  
94,30,4,8,22,22  
94,22,4,8,22,30  
86,30,4,8,26,26  
86,26,4,8,26,30  
78,34,4,8,30,26  
78,26,4,8,30,34  
43,73,4,8,39,13  
43,13,4,8,39,73

39,73,4,8,43,13  
39,13,4,8,43,73  
30,34,4,8,78,26  
30,26,4,8,78,34  
26,30,4,8,86,26  
26,26,4,8,86,30  
64,46,4,10,38,18  
64,18,4,10,38,46  
38,46,4,10,64,18  
38,18,4,10,64,46  
64,34,4,12,44,22  
64,22,4,12,44,34  
56,30,4,12,52,26  
56,26,4,12,52,30  
52,30,4,12,56,26  
52,26,4,12,56,30  
44,34,4,12,64,22  
44,22,4,12,64,34  
30,103,4,13,26,4  
26,103,4,13,30,4  
43,73,4,13,39,8  
43,8,4,13,39,73  
39,73,4,13,43,8  
39,8,4,13,43,73  
64,46,4,18,38,10  
64,10,4,18,38,46  
38,46,4,18,64,10  
38,10,4,18,64,46  
94,30,4,22,22,8  
94,8,4,22,22,30  
64,34,4,22,44,12  
64,12,4,22,44,34  
44,34,4,22,64,12  
44,12,4,22,64,34  
103,30,4,26,13,4  
103,4,4,26,13,30  
30,92,4,26,26,2  
86,30,4,26,26,8  
86,8,4,26,26,30  
26,92,4,26,30,2  
52,64,4,26,30,4  
78,34,4,26,30,8  
78,8,4,26,30,34  
52,4,4,26,30,64

30,64,4,26,52,4  
56,30,4,26,52,12  
56,12,4,26,52,30  
30,4,4,26,52,64  
52,30,4,26,56,12  
52,12,4,26,56,30  
30,34,4,26,78,8  
30,8,4,26,78,34  
26,30,4,26,86,8  
26,8,4,26,86,30  
30,88,4,28,28,2  
30,2,4,28,28,88  
28,88,4,28,30,2  
28,2,4,28,30,88  
103,26,4,30,13,4  
103,4,4,30,13,26  
94,22,4,30,22,8  
94,8,4,30,22,22  
64,52,4,30,26,4  
86,26,4,30,26,8  
86,8,4,30,26,26  
64,4,4,30,26,52  
32,84,4,30,28,2  
32,2,4,30,28,84  
28,84,4,30,32,2  
28,2,4,30,32,84  
56,26,4,30,52,12  
56,12,4,30,52,26  
52,26,4,30,56,12  
52,12,4,30,56,26  
26,52,4,30,64,4  
26,4,4,30,64,52  
26,26,4,30,86,8  
26,8,4,30,86,26  
78,26,4,34,30,8  
78,8,4,34,30,26  
64,22,4,34,44,12  
64,12,4,34,44,22  
44,22,4,34,64,12  
44,12,4,34,64,22  
30,26,4,34,78,8  
30,8,4,34,78,26  
74,44,4,42,14,2  
74,2,4,42,14,44

14,44,4,42,74,2  
14,2,4,42,74,44  
74,42,4,44,14,2  
74,2,4,44,14,42  
14,42,4,44,74,2  
14,2,4,44,74,42  
64,18,4,46,38,10  
64,10,4,46,38,18  
38,18,4,46,64,10  
38,10,4,46,64,18  
64,30,4,52,26,4  
64,4,4,52,26,30  
26,30,4,52,64,4  
26,4,4,52,64,30  
52,26,4,64,30,4  
52,4,4,64,30,26  
30,26,4,64,52,4  
30,4,4,64,52,26  
43,13,4,73,39,8  
43,8,4,73,39,13  
39,13,4,73,43,8  
39,8,4,73,43,13  
32,30,4,84,28,2  
32,2,4,84,28,30  
28,30,4,84,32,2  
28,2,4,84,32,30  
30,28,4,88,28,2  
30,2,4,88,28,28  
28,28,4,88,30,2  
28,2,4,88,30,28  
65,50,5,5,25,30  
65,30,5,5,25,50  
50,65,5,5,30,25  
50,25,5,5,30,65  
30,65,5,5,50,25  
30,25,5,5,50,65  
25,50,5,5,65,30  
25,30,5,5,65,50  
95,30,5,10,20,20  
95,20,5,10,20,30  
85,30,5,10,25,25  
85,25,5,10,25,30  
75,35,5,10,30,25  
75,25,5,10,30,35



30,35,5,10,75,25  
30,25,5,10,75,35  
25,30,5,10,85,25  
25,25,5,10,85,30  
65,35,5,15,40,20  
65,20,5,15,40,35  
55,30,5,15,50,25  
55,25,5,15,50,30  
50,30,5,15,55,25  
50,25,5,15,55,30  
40,35,5,15,65,20  
40,20,5,15,65,35  
95,30,5,20,20,10  
95,10,5,20,20,30  
65,35,5,20,40,15  
65,15,5,20,40,35  
40,35,5,20,65,15  
40,15,5,20,65,35  
85,30,5,25,25,10  
85,10,5,25,25,30  
50,65,5,25,30,5  
75,35,5,25,30,10  
75,10,5,25,30,35  
50,5,5,25,30,65  
30,65,5,25,50,5  
55,30,5,25,50,15  
55,15,5,25,50,30  
30,5,5,25,50,65  
50,30,5,25,55,15  
50,15,5,25,55,30  
30,35,5,25,75,10  
30,10,5,25,75,35  
25,30,5,25,85,10  
25,10,5,25,85,30  
95,20,5,30,20,10  
95,10,5,30,20,20  
65,50,5,30,25,5  
85,25,5,30,25,10  
85,10,5,30,25,25  
65,5,5,30,25,50  
55,25,5,30,50,15  
55,15,5,30,50,25  
50,25,5,30,55,15  
50,15,5,30,55,25

25,50,5,30,65,5  
25,5,5,30,65,50  
25,25,5,30,85,10  
25,10,5,30,85,25  
75,25,5,35,30,10  
75,10,5,35,30,25  
65,20,5,35,40,15  
65,15,5,35,40,20  
40,20,5,35,65,15  
40,15,5,35,65,20  
30,25,5,35,75,10  
30,10,5,35,75,25  
65,30,5,50,25,5  
65,5,5,50,25,30  
25,30,5,50,65,5  
25,5,5,50,65,30  
50,25,5,65,30,5  
50,5,5,65,30,25  
30,25,5,65,50,5  
30,5,5,65,50,25  
126,24,6,6,6,12  
126,12,6,6,6,24  
99,48,6,6,9,12  
99,12,6,6,9,48  
24,126,6,6,12,6  
48,99,6,6,12,9  
96,42,6,6,12,18  
102,30,6,6,12,24  
102,24,6,6,12,30  
96,18,6,6,12,42  
42,96,6,6,18,12  
78,48,6,6,18,24  
78,24,6,6,18,48  
12,126,6,6,24,6  
30,102,6,6,24,12  
48,78,6,6,24,18  
66,48,6,6,24,30  
66,30,6,6,24,48  
48,18,6,6,24,78  
24,102,6,6,30,12  
48,66,6,6,30,24  
48,24,6,6,30,66  
18,96,6,6,42,12  
12,99,6,6,48,9

24,78,6,6,48,18  
30,66,6,6,48,24  
30,24,6,6,48,66  
24,18,6,6,48,78  
24,48,6,6,66,30  
24,30,6,6,66,48  
18,48,6,6,78,24  
18,24,6,6,78,48  
48,99,6,9,12,6  
57,75,6,9,21,12  
57,12,6,9,21,75  
12,99,6,9,48,6  
21,75,6,9,57,12  
21,12,6,9,57,75  
126,24,6,12,6,6  
126,6,6,12,6,24  
99,48,6,12,9,6  
99,6,6,12,9,48  
114,18,6,12,12,18  
105,24,6,12,15,18  
105,18,6,12,15,24  
42,96,6,12,18,6  
84,48,6,12,18,12  
96,30,6,12,18,18  
96,18,6,12,18,30  
84,12,6,12,18,48  
57,75,6,12,21,9  
57,9,6,12,21,75  
30,102,6,12,24,6  
84,30,6,12,24,24  
84,24,6,12,24,30  
24,102,6,12,30,6  
66,48,6,12,30,18  
72,36,6,12,30,24  
72,24,6,12,30,36  
66,18,6,12,30,48  
42,72,6,12,36,12  
42,12,6,12,36,72  
18,96,6,12,42,6  
36,72,6,12,42,12  
48,54,6,12,42,18  
54,42,6,12,42,24  
54,24,6,12,42,42  
48,18,6,12,42,54

36,12,6,12,42,72  
42,54,6,12,48,18  
42,18,6,12,48,54  
42,42,6,12,54,24  
42,24,6,12,54,42  
21,75,6,12,57,9  
21,9,6,12,57,75  
30,48,6,12,66,18  
30,18,6,12,66,48  
30,36,6,12,72,24  
30,24,6,12,72,36  
18,48,6,12,84,12  
24,30,6,12,84,24  
24,24,6,12,84,30  
18,12,6,12,84,48  
48,93,6,18,12,3  
96,42,6,18,12,6  
114,18,6,18,12,12  
114,12,6,18,12,18  
96,6,6,18,12,42  
105,24,6,18,15,12  
105,12,6,18,15,24  
96,30,6,18,18,12  
96,12,6,18,18,30  
48,78,6,18,24,6  
48,6,6,18,24,78  
66,48,6,18,30,12  
78,24,6,18,30,24  
66,12,6,18,30,48  
66,36,6,18,36,18  
66,18,6,18,36,36  
48,54,6,18,42,12  
48,12,6,18,42,54  
12,93,6,18,48,3  
24,78,6,18,48,6  
42,54,6,18,48,12  
54,30,6,18,48,24  
54,24,6,18,48,30  
42,12,6,18,48,54  
24,6,6,18,48,78  
48,30,6,18,54,24  
48,24,6,18,54,30  
30,48,6,18,66,12  
36,36,6,18,66,18

36,18,6,18,66,36  
30,12,6,18,66,48  
30,24,6,18,78,24  
126,12,6,24,6,6  
126,6,6,24,6,12  
102,30,6,24,12,6  
102,6,6,24,12,30  
51,81,6,24,15,3  
105,18,6,24,15,12  
105,12,6,24,15,18  
51,3,6,24,15,81  
78,48,6,24,18,6  
78,6,6,24,18,48  
30,93,6,24,24,3  
84,30,6,24,24,12  
84,12,6,24,24,30  
24,93,6,24,30,3  
48,66,6,24,30,6  
72,36,6,24,30,12  
78,24,6,24,30,18  
78,18,6,24,30,24  
72,12,6,24,30,36  
48,6,6,24,30,66  
54,42,6,24,42,12  
54,12,6,24,42,42  
30,66,6,24,48,6  
54,30,6,24,48,18  
54,18,6,24,48,30  
30,6,6,24,48,66  
15,81,6,24,51,3  
15,3,6,24,51,81  
42,42,6,24,54,12  
48,30,6,24,54,18  
48,18,6,24,54,30  
42,12,6,24,54,42  
30,36,6,24,72,12  
30,12,6,24,72,36  
18,48,6,24,78,6  
30,24,6,24,78,18  
30,18,6,24,78,24  
18,6,6,24,78,48  
24,30,6,24,84,12  
24,12,6,24,84,30  
30,87,6,27,27,3

30,3,6,27,27,87  
27,87,6,27,30,3  
27,3,6,27,30,87  
102,24,6,30,12,6  
102,6,6,30,12,24  
96,18,6,30,18,12  
96,12,6,30,18,18  
66,48,6,30,24,6  
84,24,6,30,24,12  
84,12,6,30,24,24  
66,6,6,30,24,48  
33,81,6,30,27,3  
33,3,6,30,27,81  
27,81,6,30,33,3  
27,3,6,30,33,81  
54,24,6,30,48,18  
54,18,6,30,48,24  
48,24,6,30,54,18  
48,18,6,30,54,24  
24,48,6,30,66,6  
24,6,6,30,66,48  
24,24,6,30,84,12  
24,12,6,30,84,24  
72,24,6,36,30,12  
72,12,6,36,30,24  
66,18,6,36,36,18  
36,18,6,36,66,18  
30,24,6,36,72,12  
30,12,6,36,72,24  
96,18,6,42,12,6  
96,6,6,42,12,18  
54,24,6,42,42,12  
54,12,6,42,42,24  
42,24,6,42,54,12  
42,12,6,42,54,24  
99,12,6,48,9,6  
99,6,6,48,9,12  
78,24,6,48,18,6  
84,12,6,48,18,12  
78,6,6,48,18,24  
66,30,6,48,24,6  
66,6,6,48,24,30  
66,18,6,48,30,12  
66,12,6,48,30,18

24,30,6,48,66,6  
30,18,6,48,66,12  
30,12,6,48,66,18  
24,6,6,48,66,30  
18,24,6,48,78,6  
18,6,6,48,78,24  
18,12,6,48,84,12  
32,62,6,52,26,2  
32,2,6,52,26,62  
26,62,6,52,32,2  
26,2,6,52,32,62  
48,18,6,54,42,12  
48,12,6,54,42,18  
42,18,6,54,48,12  
42,12,6,54,48,18  
30,58,6,56,28,2  
30,2,6,56,28,58  
28,58,6,56,30,2  
28,2,6,56,30,58  
30,56,6,58,28,2  
30,2,6,58,28,56  
28,56,6,58,30,2  
28,2,6,58,30,56  
32,52,6,62,26,2  
32,2,6,62,26,52  
26,52,6,62,32,2  
26,2,6,62,32,52  
48,24,6,66,30,6  
48,6,6,66,30,24  
30,24,6,66,48,6  
30,6,6,66,48,24  
42,12,6,72,36,12  
36,12,6,72,42,12  
57,12,6,75,21,9  
57,9,6,75,21,12  
21,12,6,75,57,9  
21,9,6,75,57,12  
48,18,6,78,24,6  
48,6,6,78,24,18  
24,18,6,78,48,6  
24,6,6,78,48,18  
51,24,6,81,15,3  
51,3,6,81,15,24  
33,30,6,81,27,3

33,3,6,81,27,30  
27,30,6,81,33,3  
27,3,6,81,33,30  
15,24,6,81,51,3  
15,3,6,81,51,24  
30,27,6,87,27,3  
30,3,6,87,27,27  
27,27,6,87,30,3  
27,3,6,87,30,27  
67,46,7,7,23,30  
67,30,7,7,23,46  
46,67,7,7,30,23  
46,23,7,7,30,67  
30,67,7,7,46,23  
30,23,7,7,46,67  
23,46,7,7,67,30  
23,30,7,7,67,46  
97,30,7,14,16,16  
97,16,7,14,16,30  
83,30,7,14,23,23  
83,23,7,14,23,30  
69,37,7,14,30,23  
69,23,7,14,30,37  
30,37,7,14,69,23  
30,23,7,14,69,37  
23,30,7,14,83,23  
23,23,7,14,83,30  
97,30,7,16,16,14  
97,14,7,16,16,30  
67,37,7,16,32,21  
67,21,7,16,32,37  
32,37,7,16,67,21  
32,21,7,16,67,37  
67,37,7,21,32,16  
67,16,7,21,32,37  
53,30,7,21,46,23  
53,23,7,21,46,30  
46,30,7,21,53,23  
46,23,7,21,53,30  
32,37,7,21,67,16  
32,16,7,21,67,37  
83,30,7,23,23,14  
83,14,7,23,23,30  
46,67,7,23,30,7

69,37,7,23,30,14  
69,14,7,23,30,37  
46,7,7,23,30,67  
30,67,7,23,46,7  
53,30,7,23,46,21  
53,21,7,23,46,30  
30,7,7,23,46,67  
46,30,7,23,53,21  
46,21,7,23,53,30  
30,37,7,23,69,14  
30,14,7,23,69,37  
23,30,7,23,83,14  
23,14,7,23,83,30  
97,16,7,30,16,14  
97,14,7,30,16,16  
67,46,7,30,23,7  
83,23,7,30,23,14  
83,14,7,30,23,23  
67,7,7,30,23,46  
53,23,7,30,46,21  
53,21,7,30,46,23  
46,23,7,30,53,21  
46,21,7,30,53,23  
23,46,7,30,67,7  
23,7,7,30,67,46  
23,23,7,30,83,14  
23,14,7,30,83,23  
69,23,7,37,30,14  
69,14,7,37,30,23  
67,21,7,37,32,16  
67,16,7,37,32,21  
32,21,7,37,67,16  
32,16,7,37,67,21  
30,23,7,37,69,14  
30,14,7,37,69,23  
67,30,7,46,23,7  
67,7,7,46,23,30  
23,30,7,46,67,7  
23,7,7,46,67,30  
46,23,7,67,30,7  
46,7,7,67,30,23  
30,23,7,67,46,7  
30,7,7,67,46,23  
101,30,8,8,11,22

101,22,8,8,11,30  
30,101,8,8,22,11  
68,44,8,8,22,30  
68,30,8,8,22,44  
22,101,8,8,30,11  
44,68,8,8,30,22  
44,22,8,8,30,68  
30,68,8,8,44,22  
30,22,8,8,44,68  
22,44,8,8,68,30  
22,30,8,8,68,44  
30,101,8,11,22,8  
22,101,8,11,30,8  
41,71,8,11,33,16  
41,16,8,11,33,71  
33,71,8,11,41,16  
33,16,8,11,41,71  
98,30,8,14,14,16  
98,16,8,14,14,30  
68,38,8,14,28,24  
68,24,8,14,28,38  
28,38,8,14,68,24  
28,24,8,14,68,38  
98,30,8,16,14,14  
98,14,8,16,14,30  
82,30,8,16,22,22  
82,22,8,16,22,30  
66,38,8,16,30,22  
66,22,8,16,30,38  
41,71,8,16,33,11  
41,11,8,16,33,71  
33,71,8,16,41,11  
33,11,8,16,41,71  
30,38,8,16,66,22  
30,22,8,16,66,38  
22,30,8,16,82,22  
22,22,8,16,82,30  
101,30,8,22,11,8  
101,8,8,22,11,30  
30,94,8,22,22,4  
82,30,8,22,22,16  
82,16,8,22,22,30  
22,94,8,22,30,4  
44,68,8,22,30,8

66,38,8,22,30,16  
66,16,8,22,30,38  
44,8,8,22,30,68  
30,68,8,22,44,8  
52,30,8,22,44,24  
52,24,8,22,44,30  
30,8,8,22,44,68  
44,30,8,22,52,24  
44,24,8,22,52,30  
30,38,8,22,66,16  
30,16,8,22,66,38  
22,30,8,22,82,16  
22,16,8,22,82,30  
68,38,8,24,28,14  
68,14,8,24,28,38  
52,30,8,24,44,22  
52,22,8,24,44,30  
44,30,8,24,52,22  
44,22,8,24,52,30  
28,38,8,24,68,14  
28,14,8,24,68,38  
30,86,8,26,26,4  
30,4,8,26,26,86  
26,86,8,26,30,4  
26,4,8,26,30,86  
101,22,8,30,11,8  
101,8,8,30,11,22  
98,16,8,30,14,14  
98,14,8,30,14,16  
68,44,8,30,22,8  
82,22,8,30,22,16  
82,16,8,30,22,22  
68,8,8,30,22,44  
34,78,8,30,26,4  
34,4,8,30,26,78  
26,78,8,30,34,4  
26,4,8,30,34,78  
52,24,8,30,44,22  
52,22,8,30,44,24  
44,24,8,30,52,22  
44,22,8,30,52,24  
22,44,8,30,68,8  
22,8,8,30,68,44  
22,22,8,30,82,16

22,16,8,30,82,22  
68,24,8,38,28,14  
68,14,8,38,28,24  
66,22,8,38,30,16  
66,16,8,38,30,22  
30,22,8,38,66,16  
30,16,8,38,66,22  
28,24,8,38,68,14  
28,14,8,38,68,24  
73,43,8,39,13,4  
73,4,8,39,13,43  
13,43,8,39,73,4  
13,4,8,39,73,43  
73,39,8,43,13,4  
73,4,8,43,13,39  
13,39,8,43,73,4  
13,4,8,43,73,39  
68,30,8,44,22,8  
68,8,8,44,22,30  
22,30,8,44,68,8  
22,8,8,44,68,30  
50,62,8,46,12,2  
50,2,8,46,12,62  
12,62,8,46,50,2  
12,2,8,46,50,62  
50,46,8,62,12,2  
50,2,8,62,12,46  
12,46,8,62,50,2  
12,2,8,62,50,46  
44,22,8,68,30,8  
44,8,8,68,30,22  
30,22,8,68,44,8  
30,8,8,68,44,22  
41,16,8,71,33,11  
41,11,8,71,33,16  
33,16,8,71,41,11  
33,11,8,71,41,16  
34,30,8,78,26,4  
34,4,8,78,26,30  
26,30,8,78,34,4  
26,4,8,78,34,30  
30,26,8,86,26,4  
30,4,8,86,26,26  
26,26,8,86,30,4

26,4,8,86,30,26  
75,54,9,9,15,18  
75,18,9,9,15,54  
54,75,9,9,18,15  
54,15,9,9,18,75  
69,42,9,9,21,30  
69,30,9,9,21,42  
42,69,9,9,30,21  
42,21,9,9,30,69  
30,69,9,9,42,21  
30,21,9,9,42,69  
18,75,9,9,54,15  
18,15,9,9,54,75  
21,42,9,9,69,30  
21,30,9,9,69,42  
15,54,9,9,75,18  
15,18,9,9,75,54  
99,48,9,12,6,6  
99,6,9,12,6,48  
99,30,9,12,12,18  
99,18,9,12,12,30  
81,48,9,12,15,15  
87,39,9,12,15,18  
87,18,9,12,15,39  
81,15,9,12,15,48  
69,57,9,12,18,15  
69,15,9,12,18,57  
69,39,9,12,24,27  
69,27,9,12,24,39  
18,57,9,12,69,15  
24,39,9,12,69,27  
24,27,9,12,69,39  
18,15,9,12,69,57  
15,48,9,12,81,15  
15,15,9,12,81,48  
15,39,9,12,87,18  
15,18,9,12,87,39  
81,48,9,15,15,12  
81,12,9,15,15,48  
54,75,9,15,18,9  
69,57,9,15,18,12  
69,12,9,15,18,57  
54,9,9,15,18,75  
54,48,9,15,33,21

54,21,9,15,33,48  
18,75,9,15,54,9  
33,48,9,15,54,21  
33,21,9,15,54,48  
18,9,9,15,54,75  
18,57,9,15,69,12  
18,12,9,15,69,57  
15,48,9,15,81,12  
15,12,9,15,81,48  
99,30,9,18,12,12  
99,12,9,18,12,30  
75,54,9,18,15,9  
87,39,9,18,15,12  
87,12,9,18,15,39  
75,9,9,18,15,54  
81,30,9,18,21,21  
81,21,9,18,21,30  
63,39,9,18,30,21  
63,21,9,18,30,39  
30,39,9,18,63,21  
30,21,9,18,63,39  
15,54,9,18,75,9  
15,9,9,18,75,54  
21,30,9,18,81,21  
21,21,9,18,81,30  
15,39,9,18,87,12  
15,12,9,18,87,39  
75,57,9,21,12,6  
75,6,9,21,12,57  
81,30,9,21,21,18  
81,18,9,21,21,30  
42,69,9,21,30,9  
63,39,9,21,30,18  
63,18,9,21,30,39  
42,9,9,21,30,69  
54,48,9,21,33,15  
54,15,9,21,33,48  
30,69,9,21,42,9  
51,30,9,21,42,27  
51,27,9,21,42,30  
30,9,9,21,42,69  
42,30,9,21,51,27  
42,27,9,21,51,30  
33,48,9,21,54,15

33,15,9,21,54,48  
30,39,9,21,63,18  
30,18,9,21,63,39  
12,57,9,21,75,6  
12,6,9,21,75,57  
21,30,9,21,81,18  
21,18,9,21,81,30  
69,39,9,27,24,12  
69,12,9,27,24,39  
51,30,9,27,42,21  
51,21,9,27,42,30  
42,30,9,27,51,21  
42,21,9,27,51,30  
24,39,9,27,69,12  
24,12,9,27,69,39  
51,75,9,30,12,3  
99,18,9,30,12,12  
99,12,9,30,12,18  
51,3,9,30,12,75  
69,42,9,30,21,9  
81,21,9,30,21,18  
81,18,9,30,21,21  
69,9,9,30,21,42  
51,27,9,30,42,21  
51,21,9,30,42,27  
12,75,9,30,51,3  
42,27,9,30,51,21  
42,21,9,30,51,27  
12,3,9,30,51,75  
21,42,9,30,69,9  
21,9,9,30,69,42  
21,21,9,30,81,18  
21,18,9,30,81,21  
48,66,9,39,15,3  
87,18,9,39,15,12  
87,12,9,39,15,18  
48,3,9,39,15,66  
30,75,9,39,24,3  
69,27,9,39,24,12  
69,12,9,39,24,27  
30,3,9,39,24,75  
24,75,9,39,30,3  
63,21,9,39,30,18  
63,18,9,39,30,21

24,3,9,39,30,75  
15,66,9,39,48,3  
15,3,9,39,48,66  
30,21,9,39,63,18  
30,18,9,39,63,21  
24,27,9,39,69,12  
24,12,9,39,69,27  
15,18,9,39,87,12  
15,12,9,39,87,18  
69,30,9,42,21,9  
69,9,9,42,21,30  
21,30,9,42,69,9  
21,9,9,42,69,30  
99,12,9,48,6,6  
99,6,9,48,6,12  
51,54,9,48,15,3  
81,15,9,48,15,12  
81,12,9,48,15,15  
51,3,9,48,15,54  
33,63,9,48,24,3  
33,3,9,48,24,63  
24,63,9,48,33,3  
54,21,9,48,33,15  
54,15,9,48,33,21  
24,3,9,48,33,63  
15,54,9,48,51,3  
15,3,9,48,51,54  
33,21,9,48,54,15  
33,15,9,48,54,21  
15,15,9,48,81,12  
15,12,9,48,81,15  
51,48,9,54,15,3  
75,18,9,54,15,9  
75,9,9,54,15,18  
51,3,9,54,15,48  
30,57,9,54,27,3  
30,3,9,54,27,57  
27,57,9,54,30,3  
27,3,9,54,30,57  
15,48,9,54,51,3  
15,3,9,54,51,48  
15,18,9,54,75,9  
15,9,9,54,75,18  
75,21,9,57,12,6

75,6,9,57,12,21  
69,15,9,57,18,12  
69,12,9,57,18,15  
30,54,9,57,27,3  
30,3,9,57,27,54  
27,54,9,57,30,3  
27,3,9,57,30,54  
18,15,9,57,69,12  
18,12,9,57,69,15  
12,21,9,57,75,6  
12,6,9,57,75,21  
33,48,9,63,24,3  
33,3,9,63,24,48  
24,48,9,63,33,3  
24,3,9,63,33,48  
48,39,9,66,15,3  
48,3,9,66,15,39  
15,39,9,66,48,3  
15,3,9,66,48,39  
42,21,9,69,30,9  
42,9,9,69,30,21  
30,21,9,69,42,9  
30,9,9,69,42,21  
51,30,9,75,12,3  
51,3,9,75,12,30  
54,15,9,75,18,9  
54,9,9,75,18,15  
30,39,9,75,24,3  
30,3,9,75,24,39  
24,39,9,75,30,3  
24,3,9,75,30,39  
12,30,9,75,51,3  
12,3,9,75,51,30  
18,15,9,75,54,9  
18,9,9,75,54,15  
100,30,10,10,10,20  
100,20,10,10,10,30  
30,100,10,10,20,10  
70,40,10,10,20,30  
70,30,10,10,20,40  
20,100,10,10,30,10  
40,70,10,10,30,20  
40,20,10,10,30,70  
30,70,10,10,40,20

30,20,10,10,40,70  
20,40,10,10,70,30  
20,30,10,10,70,40  
100,30,10,20,10,10  
100,10,10,20,10,30  
30,95,10,20,20,5  
80,30,10,20,20,20  
80,20,10,20,20,30  
20,95,10,20,30,5  
40,70,10,20,30,10  
60,40,10,20,30,20  
60,20,10,20,30,40  
40,10,10,20,30,70  
30,70,10,20,40,10  
50,30,10,20,40,30  
30,10,10,20,40,70  
40,30,10,20,50,30  
30,40,10,20,60,20  
30,20,10,20,60,40  
20,30,10,20,80,20  
20,20,10,20,80,30  
70,28,10,22,26,24  
70,24,10,22,26,28  
26,28,10,22,70,24  
26,24,10,22,70,28  
70,28,10,24,26,22  
70,22,10,24,26,28  
26,28,10,24,70,22  
26,22,10,24,70,28  
30,85,10,25,25,5  
30,5,10,25,25,85  
25,85,10,25,30,5  
25,5,10,25,30,85  
70,24,10,28,26,22  
70,22,10,28,26,24  
26,24,10,28,70,22  
26,22,10,28,70,24  
100,20,10,30,10,10  
100,10,10,30,10,20  
70,40,10,30,20,10  
80,20,10,30,20,20  
70,10,10,30,20,40  
35,75,10,30,25,5  
35,5,10,30,25,75

25,75,10,30,35,5  
25,5,10,30,35,75  
50,30,10,30,40,20  
50,20,10,30,40,30  
40,30,10,30,50,20  
40,20,10,30,50,30  
20,40,10,30,70,10  
20,10,10,30,70,40  
20,20,10,30,80,20  
24,94,10,34,16,2  
16,94,10,34,24,2  
46,64,10,38,18,4  
46,4,10,38,18,64  
18,64,10,38,46,4  
18,4,10,38,46,64  
70,30,10,40,20,10  
70,10,10,40,20,30  
60,20,10,40,30,20  
30,20,10,40,60,20  
20,30,10,40,70,10  
20,10,10,40,70,30  
46,38,10,64,18,4  
46,4,10,64,18,38  
18,38,10,64,46,4  
18,4,10,64,46,38  
40,20,10,70,30,10  
40,10,10,70,30,20  
30,20,10,70,40,10  
30,10,10,70,40,20  
35,30,10,75,25,5  
35,5,10,75,25,30  
25,30,10,75,35,5  
25,5,10,75,35,30  
30,25,10,85,25,5  
30,5,10,85,25,25  
25,25,10,85,30,5  
25,5,10,85,30,25  
71,38,11,11,19,30  
71,30,11,11,19,38  
38,71,11,11,30,19  
38,19,11,11,30,71  
30,71,11,11,38,19  
30,19,11,11,38,71  
19,38,11,11,71,30

19,30,11,11,71,38  
79,30,11,19,19,22  
79,22,11,19,19,30  
38,71,11,19,30,11  
57,41,11,19,30,22  
57,22,11,19,30,41  
38,11,11,19,30,71  
30,71,11,19,38,11  
49,33,11,19,38,30  
49,30,11,19,38,33  
30,11,11,19,38,71  
38,33,11,19,49,30  
38,30,11,19,49,33  
30,41,11,19,57,22  
30,22,11,19,57,41  
19,30,11,19,79,22  
19,22,11,19,79,30  
101,30,11,22,8,8  
101,8,11,22,8,30  
79,30,11,22,19,19  
79,19,11,22,19,30  
57,41,11,22,30,19  
57,19,11,22,30,41  
30,41,11,22,57,19  
30,19,11,22,57,41  
19,30,11,22,79,19  
19,19,11,22,79,30  
101,22,11,30,8,8  
101,8,11,30,8,22  
71,38,11,30,19,11  
79,22,11,30,19,19  
79,19,11,30,19,22  
71,11,11,30,19,38  
49,33,11,30,38,19  
49,19,11,30,38,33  
38,33,11,30,49,19  
38,19,11,30,49,33  
19,38,11,30,71,11  
19,11,11,30,71,38  
19,22,11,30,79,19  
19,19,11,30,79,22  
71,41,11,33,16,8  
71,8,11,33,16,41  
49,30,11,33,38,19

49,19,11,33,38,30  
38,30,11,33,49,19  
38,19,11,33,49,30  
16,41,11,33,71,8  
16,8,11,33,71,41  
71,30,11,38,19,11  
71,11,11,38,19,30  
19,30,11,38,71,11  
19,11,11,38,71,30  
71,33,11,41,16,8  
71,8,11,41,16,33  
57,22,11,41,30,19  
57,19,11,41,30,22  
30,22,11,41,57,19  
30,19,11,41,57,22  
16,33,11,41,71,8  
16,8,11,41,71,33  
38,19,11,71,30,11  
38,11,11,71,30,19  
30,19,11,71,38,11  
30,11,11,71,38,19  
114,18,12,12,6,18  
99,30,12,12,9,18  
99,18,12,12,9,30  
84,42,12,12,12,18  
84,18,12,12,12,42  
18,114,12,12,18,6  
30,99,12,12,18,9  
42,84,12,12,18,12  
72,36,12,12,18,30  
72,30,12,12,18,36  
42,12,12,12,18,84  
18,99,12,12,30,9  
36,72,12,12,30,18  
36,18,12,12,30,72  
30,72,12,12,36,18  
30,18,12,12,36,72  
18,84,12,12,42,12  
18,12,12,12,42,84  
18,36,12,12,72,30  
18,30,12,12,72,36  
12,42,12,12,84,18  
12,18,12,12,84,42  
48,81,12,15,15,9

48,9,12,15,15,81  
24,105,12,15,18,6  
39,87,12,15,18,9  
39,9,12,15,18,87  
18,105,12,15,24,6  
39,63,12,15,33,18  
39,18,12,15,33,63  
18,87,12,15,39,9  
33,63,12,15,39,18  
33,18,12,15,39,63  
18,9,12,15,39,87  
15,81,12,15,48,9  
15,9,12,15,48,81  
48,93,12,18,6,3  
96,42,12,18,6,6  
114,18,12,18,6,12  
114,12,12,18,6,18  
96,6,12,18,6,42  
99,30,12,18,9,12  
99,12,12,18,9,30  
48,84,12,18,12,6  
84,42,12,18,12,12  
84,12,12,18,12,42  
48,6,12,18,12,84  
57,69,12,18,15,9  
57,9,12,18,15,69  
30,96,12,18,18,6  
78,30,12,18,18,24  
78,24,12,18,18,30  
66,30,12,18,24,30  
18,96,12,18,30,6  
36,72,12,18,30,12  
48,54,12,18,30,18  
54,42,12,18,30,24  
54,24,12,18,30,42  
48,18,12,18,30,54  
36,12,12,18,30,72  
39,63,12,18,33,15  
39,15,12,18,33,63  
30,72,12,18,36,12  
48,36,12,18,36,30  
48,30,12,18,36,36  
30,12,12,18,36,72  
33,63,12,18,39,15

33,15,12,18,39,63  
6,93,12,18,48,3  
12,84,12,18,48,6  
30,54,12,18,48,18  
36,36,12,18,48,30  
36,30,12,18,48,36  
30,18,12,18,48,54  
12,6,12,18,48,84  
30,42,12,18,54,24  
30,24,12,18,54,42  
15,69,12,18,57,9  
15,9,12,18,57,69  
24,30,12,18,66,30  
18,30,12,18,78,24  
18,24,12,18,78,30  
12,42,12,18,84,12  
12,12,12,18,84,42  
75,57,12,21,9,6  
75,6,12,21,9,57  
9,57,12,21,75,6  
9,6,12,21,75,57  
102,30,12,24,6,6  
102,6,12,24,6,30  
78,30,12,24,18,18  
78,18,12,24,18,30  
30,84,12,24,24,6  
30,6,12,24,24,84  
39,69,12,24,27,9  
39,9,12,24,27,69  
24,84,12,24,30,6  
54,42,12,24,30,18  
54,18,12,24,30,42  
24,6,12,24,30,84  
27,69,12,24,39,9  
27,9,12,24,39,69  
30,42,12,24,54,18  
30,18,12,24,54,42  
18,30,12,24,78,18  
18,18,12,24,78,30  
102,24,12,30,6,6  
102,6,12,30,6,24  
51,75,12,30,9,3  
99,18,12,30,9,12  
99,12,12,30,9,18

51,3,12,30,9,75  
24,93,12,30,18,3  
48,66,12,30,18,6  
72,36,12,30,18,12  
78,24,12,30,18,18  
78,18,12,30,18,24  
72,12,12,30,18,36  
48,6,12,30,18,66  
18,93,12,30,24,3  
36,72,12,30,24,6  
66,30,12,30,24,18  
66,18,12,30,24,30  
36,6,12,30,24,72  
24,72,12,30,36,6  
48,36,12,30,36,18  
48,18,12,30,36,36  
24,6,12,30,36,72  
18,66,12,30,48,6  
36,36,12,30,48,18  
36,18,12,30,48,36  
18,6,12,30,48,66  
9,75,12,30,51,3  
9,3,12,30,51,75  
24,30,12,30,66,18  
24,18,12,30,66,30  
18,36,12,30,72,12  
18,12,12,30,72,36  
18,24,12,30,78,18  
18,18,12,30,78,24  
72,42,12,36,12,6  
72,6,12,36,12,42  
72,30,12,36,18,12  
72,12,12,36,18,30  
48,30,12,36,36,18  
48,18,12,36,36,30  
36,30,12,36,48,18  
36,18,12,36,48,30  
12,42,12,36,72,6  
18,30,12,36,72,12  
18,12,12,36,72,30  
12,6,12,36,72,42  
96,18,12,42,6,6  
96,6,12,42,6,18  
72,36,12,42,12,6

84,18,12,42,12,12  
84,12,12,42,12,18  
72,6,12,42,12,36  
54,48,12,42,18,6  
54,6,12,42,18,48  
27,75,12,42,21,3  
27,3,12,42,21,75  
42,54,12,42,24,6  
42,6,12,42,24,54  
21,75,12,42,27,3  
21,3,12,42,27,75  
54,24,12,42,30,18  
54,18,12,42,30,24  
24,54,12,42,42,6  
24,6,12,42,42,54  
18,48,12,42,54,6  
30,24,12,42,54,18  
30,18,12,42,54,24  
18,6,12,42,54,48  
12,36,12,42,72,6  
12,6,12,42,72,36  
12,18,12,42,84,12  
12,12,12,42,84,18  
34,64,12,44,22,4  
34,4,12,44,22,64  
22,64,12,44,34,4  
22,4,12,44,34,64  
50,62,12,46,8,2  
50,2,12,46,8,62  
8,62,12,46,50,2  
8,2,12,46,50,62  
54,42,12,48,18,6  
54,6,12,48,18,42  
18,42,12,48,54,6  
18,6,12,48,54,42  
30,56,12,52,26,4  
30,4,12,52,26,56  
26,56,12,52,30,4  
26,4,12,52,30,56  
42,42,12,54,24,6  
42,6,12,54,24,42  
48,18,12,54,30,18  
24,42,12,54,42,6  
24,6,12,54,42,42

30,18,12,54,48,18  
30,52,12,56,26,4  
30,4,12,56,26,52  
26,52,12,56,30,4  
26,4,12,56,30,52  
75,21,12,57,9,6  
75,6,12,57,9,21  
9,21,12,57,75,6  
9,6,12,57,75,21  
50,46,12,62,8,2  
50,2,12,62,8,46  
8,46,12,62,50,2  
8,2,12,62,50,46  
39,18,12,63,33,15  
39,15,12,63,33,18  
33,18,12,63,39,15  
33,15,12,63,39,18  
34,44,12,64,22,4  
34,4,12,64,22,44  
22,44,12,64,34,4  
22,4,12,64,34,44  
48,30,12,66,18,6  
48,6,12,66,18,30  
18,30,12,66,48,6  
18,6,12,66,48,30  
57,18,12,69,15,9  
57,9,12,69,15,18  
39,24,12,69,27,9  
39,9,12,69,27,24  
27,24,12,69,39,9  
27,9,12,69,39,24  
15,18,12,69,57,9  
15,9,12,69,57,18  
36,30,12,72,24,6  
36,6,12,72,24,30  
36,18,12,72,30,12  
36,12,12,72,30,18  
24,30,12,72,36,6  
30,18,12,72,36,12  
30,12,12,72,36,18  
24,6,12,72,36,30  
51,30,12,75,9,3  
51,3,12,75,9,30  
27,42,12,75,21,3

27,3,12,75,21,42  
21,42,12,75,27,3  
21,3,12,75,27,42  
9,30,12,75,51,3  
9,3,12,75,51,30  
48,15,12,81,15,9  
48,9,12,81,15,15  
15,15,12,81,48,9  
15,9,12,81,48,15  
48,18,12,84,12,6  
48,6,12,84,12,18  
42,12,12,84,18,12  
30,24,12,84,24,6  
30,6,12,84,24,24  
24,24,12,84,30,6  
24,6,12,84,30,24  
18,12,12,84,42,12  
12,18,12,84,48,6  
12,6,12,84,48,18  
39,15,12,87,18,9  
39,9,12,87,18,15  
18,15,12,87,39,9  
18,9,12,87,39,15  
73,34,13,13,17,30  
73,30,13,13,17,34  
34,73,13,13,30,17  
34,17,13,13,30,73  
30,73,13,13,34,17  
30,17,13,13,34,73  
17,34,13,13,73,30  
17,30,13,13,73,34  
77,30,13,17,17,26  
77,26,13,17,17,30  
34,73,13,17,30,13  
51,43,13,17,30,26  
51,26,13,17,30,43  
34,13,13,17,30,73  
30,73,13,17,34,13  
47,39,13,17,34,30  
47,30,13,17,34,39  
30,13,13,17,34,73  
34,39,13,17,47,30  
34,30,13,17,47,39  
30,43,13,17,51,26

30,26,13,17,51,43  
17,30,13,17,77,26  
17,26,13,17,77,30  
103,30,13,26,4,4  
103,4,13,26,4,30  
77,30,13,26,17,17  
77,17,13,26,17,30  
51,43,13,26,30,17  
51,17,13,26,30,43  
30,43,13,26,51,17  
30,17,13,26,51,43  
17,30,13,26,77,17  
17,17,13,26,77,30  
103,26,13,30,4,4  
103,4,13,30,4,26  
73,34,13,30,17,13  
77,26,13,30,17,17  
77,17,13,30,17,26  
73,13,13,30,17,34  
47,39,13,30,34,17  
47,17,13,30,34,39  
34,39,13,30,47,17  
34,17,13,30,47,39  
17,34,13,30,73,13  
17,13,13,30,73,34  
17,26,13,30,77,17  
17,17,13,30,77,26  
73,30,13,34,17,13  
73,13,13,34,17,30  
17,30,13,34,73,13  
17,13,13,34,73,30  
73,43,13,39,8,4  
73,4,13,39,8,43  
47,30,13,39,34,17  
47,17,13,39,34,30  
34,30,13,39,47,17  
34,17,13,39,47,30  
8,43,13,39,73,4  
8,4,13,39,73,43  
73,39,13,43,8,4  
73,4,13,43,8,39  
51,26,13,43,30,17  
51,17,13,43,30,26  
30,26,13,43,51,17



30,17,13,43,51,26  
8,39,13,43,73,4  
8,4,13,43,73,39  
34,17,13,73,30,13  
34,13,13,73,30,17  
30,17,13,73,34,13  
30,13,13,73,34,17  
98,30,14,14,8,16  
98,16,14,14,8,30  
30,98,14,14,16,8  
74,32,14,14,16,30  
74,30,14,14,16,32  
16,98,14,14,30,8  
32,74,14,14,30,16  
32,16,14,14,30,74  
30,74,14,14,32,16  
30,16,14,14,32,74  
16,32,14,14,74,30  
16,30,14,14,74,32  
98,30,14,16,8,14  
98,14,14,16,8,30  
30,97,14,16,16,7  
76,30,14,16,16,28  
76,28,14,16,16,30  
16,97,14,16,30,7  
32,74,14,16,30,14  
48,44,14,16,30,28  
48,28,14,16,30,44  
32,14,14,16,30,74  
30,74,14,16,32,14  
46,42,14,16,32,30  
46,30,14,16,32,42  
30,14,14,16,32,74  
32,42,14,16,46,30  
32,30,14,16,46,42  
30,44,14,16,48,28  
30,28,14,16,48,44  
16,30,14,16,76,28  
16,28,14,16,76,30  
30,83,14,23,23,7  
30,7,14,23,23,83  
23,83,14,23,30,7  
23,7,14,23,30,83  
104,30,14,28,2,2

104,2,14,28,2,30  
76,30,14,28,16,16  
76,16,14,28,16,30  
38,68,14,28,24,8  
38,8,14,28,24,68  
48,44,14,28,30,16  
48,16,14,28,30,44  
24,68,14,28,38,8  
24,8,14,28,38,68  
30,44,14,28,48,16  
30,16,14,28,48,44  
16,30,14,28,76,16  
16,16,14,28,76,30  
104,28,14,30,2,2  
104,2,14,30,2,28  
98,16,14,30,8,14  
98,14,14,30,8,16  
74,32,14,30,16,14  
76,28,14,30,16,16  
76,16,14,30,16,28  
74,14,14,30,16,32  
37,69,14,30,23,7  
37,7,14,30,23,69  
46,42,14,30,32,16  
46,16,14,30,32,42  
23,69,14,30,37,7  
23,7,14,30,37,69  
32,42,14,30,46,16  
32,16,14,30,46,42  
16,32,14,30,74,14  
16,14,14,30,74,32  
16,28,14,30,76,16  
16,16,14,30,76,28  
74,30,14,32,16,14  
74,14,14,32,16,30  
16,30,14,32,74,14  
16,14,14,32,74,30  
74,44,14,42,4,2  
74,2,14,42,4,44  
46,30,14,42,32,16  
46,16,14,42,32,30  
32,30,14,42,46,16  
32,16,14,42,46,30  
4,44,14,42,74,2

4,2,14,42,74,44  
74,42,14,44,4,2  
74,2,14,44,4,42  
48,28,14,44,30,16  
48,16,14,44,30,28  
30,28,14,44,48,16  
30,16,14,44,48,28  
4,42,14,44,74,2  
4,2,14,44,74,42  
38,28,14,68,24,8  
38,8,14,68,24,28  
24,28,14,68,38,8  
24,8,14,68,38,28  
37,30,14,69,23,7  
37,7,14,69,23,30  
23,30,14,69,37,7  
23,7,14,69,37,30  
32,16,14,74,30,14  
32,14,14,74,30,16  
30,16,14,74,32,14  
30,14,14,74,32,16  
30,23,14,83,23,7  
30,7,14,83,23,23  
23,23,14,83,30,7  
23,7,14,83,30,23  
81,48,15,15,9,12  
81,12,15,15,9,48  
48,81,15,15,12,9  
48,9,15,15,12,81  
12,81,15,15,48,9  
12,9,15,15,48,81  
9,48,15,15,81,12  
9,12,15,15,81,48  
105,24,15,18,6,12  
105,12,15,18,6,24  
75,54,15,18,9,9  
87,39,15,18,9,12  
87,12,15,18,9,39  
75,9,15,18,9,54  
57,69,15,18,12,9  
57,9,15,18,12,69  
57,39,15,18,24,27  
57,27,15,18,24,39  
12,69,15,18,57,9

24,39,15,18,57,27  
24,27,15,18,57,39  
12,9,15,18,57,69  
9,54,15,18,75,9  
9,9,15,18,75,54  
9,39,15,18,87,12  
9,12,15,18,87,39  
51,81,15,24,6,3  
105,18,15,24,6,12  
105,12,15,24,6,18  
51,3,15,24,6,81  
51,33,15,24,30,27  
51,27,15,24,30,33  
6,81,15,24,51,3  
30,33,15,24,51,27  
30,27,15,24,51,33  
6,3,15,24,51,81  
57,39,15,27,24,18  
57,18,15,27,24,39  
51,33,15,27,30,24  
51,24,15,27,30,33  
30,33,15,27,51,24  
30,24,15,27,51,33  
24,39,15,27,57,18  
24,18,15,27,57,39  
63,39,15,33,18,12  
63,12,15,33,18,39  
48,54,15,33,21,9  
48,9,15,33,21,54  
51,27,15,33,30,24  
51,24,15,33,30,27  
21,54,15,33,48,9  
21,9,15,33,48,54  
30,27,15,33,51,24  
30,24,15,33,51,27  
18,39,15,33,63,12  
18,12,15,33,63,39  
48,66,15,39,9,3  
87,18,15,39,9,12  
87,12,15,39,9,18  
48,3,15,39,9,66  
24,81,15,39,18,3  
63,33,15,39,18,12  
63,12,15,39,18,33

24,3,15,39,18,81  
18,81,15,39,24,3  
57,27,15,39,24,18  
57,18,15,39,24,27  
18,3,15,39,24,81  
9,66,15,39,48,3  
9,3,15,39,48,66  
24,27,15,39,57,18  
24,18,15,39,57,27  
18,33,15,39,63,12  
18,12,15,39,63,33  
9,18,15,39,87,12  
9,12,15,39,87,18  
35,65,15,40,20,5  
35,5,15,40,20,65  
20,65,15,40,35,5  
20,5,15,40,35,65  
51,54,15,48,9,3  
81,15,15,48,9,12  
81,12,15,48,9,15  
51,3,15,48,9,54  
27,69,15,48,18,3  
27,3,15,48,18,69  
18,69,15,48,27,3  
18,3,15,48,27,69  
9,54,15,48,51,3  
9,3,15,48,51,54  
9,15,15,48,81,12  
9,12,15,48,81,15  
30,55,15,50,25,5  
30,5,15,50,25,55  
25,55,15,50,30,5  
25,5,15,50,30,55  
51,48,15,54,9,3  
75,18,15,54,9,9  
75,9,15,54,9,18  
51,3,15,54,9,48  
24,63,15,54,21,3  
48,33,15,54,21,9  
48,9,15,54,21,33  
24,3,15,54,21,63  
21,63,15,54,24,3  
21,3,15,54,24,63  
21,33,15,54,48,9

21,9,15,54,48,33  
9,48,15,54,51,3  
9,3,15,54,51,48  
9,18,15,54,75,9  
9,9,15,54,75,18  
30,50,15,55,25,5  
30,5,15,55,25,50  
25,50,15,55,30,5  
25,5,15,55,30,50  
24,54,15,63,21,3  
24,3,15,63,21,54  
21,54,15,63,24,3  
21,3,15,63,24,54  
35,40,15,65,20,5  
35,5,15,65,20,40  
20,40,15,65,35,5  
20,5,15,65,35,40  
48,39,15,66,9,3  
48,3,15,66,9,39  
9,39,15,66,48,3  
9,3,15,66,48,39  
57,18,15,69,12,9  
57,9,15,69,12,18  
27,48,15,69,18,3  
27,3,15,69,18,48  
18,48,15,69,27,3  
18,3,15,69,27,48  
12,18,15,69,57,9  
12,9,15,69,57,18  
51,24,15,81,6,3  
51,3,15,81,6,24  
48,15,15,81,12,9  
48,9,15,81,12,15  
24,39,15,81,18,3  
24,3,15,81,18,39  
18,39,15,81,24,3  
18,3,15,81,24,39  
12,15,15,81,48,9  
12,9,15,81,48,15  
6,24,15,81,51,3  
6,3,15,81,51,24  
97,30,16,16,7,14  
97,14,16,16,7,30  
30,97,16,16,14,7

76,30,16,16,14,28  
76,28,16,16,14,30  
30,76,16,16,28,14  
30,14,16,16,28,76  
14,97,16,16,30,7  
28,76,16,16,30,14  
28,14,16,16,30,76  
14,30,16,16,76,28  
14,28,16,16,76,30  
30,82,16,22,22,8  
30,8,16,22,22,82  
22,82,16,22,30,8  
22,8,16,22,30,82  
76,30,16,28,14,16  
76,16,16,28,14,30  
14,30,16,28,76,16  
14,16,16,28,76,30  
97,16,16,30,7,14  
97,14,16,30,7,16  
74,32,16,30,14,14  
76,28,16,30,14,16  
76,16,16,30,14,28  
74,14,16,30,14,32  
38,66,16,30,22,8  
38,8,16,30,22,66  
44,48,16,30,28,14  
44,14,16,30,28,48  
22,66,16,30,38,8  
22,8,16,30,38,66  
28,48,16,30,44,14  
28,14,16,30,44,48  
14,32,16,30,74,14  
14,14,16,30,74,32  
14,28,16,30,76,16  
14,16,16,30,76,28  
74,30,16,32,14,14  
74,14,16,32,14,30  
37,67,16,32,21,7  
37,7,16,32,21,67  
42,46,16,32,30,14  
42,14,16,32,30,46  
21,67,16,32,37,7  
21,7,16,32,37,67  
30,46,16,32,42,14

30,14,16,32,42,46  
14,30,16,32,74,14  
14,14,16,32,74,30  
71,41,16,33,11,8  
71,8,16,33,11,41  
11,41,16,33,71,8  
11,8,16,33,71,41  
24,94,16,34,10,2  
10,94,16,34,24,2  
71,33,16,41,11,8  
71,8,16,41,11,33  
11,33,16,41,71,8  
11,8,16,41,71,33  
42,32,16,46,30,14  
42,14,16,46,30,32  
30,32,16,46,42,14  
30,14,16,46,42,32  
44,30,16,48,28,14  
44,14,16,48,28,30  
28,30,16,48,44,14  
28,14,16,48,44,30  
38,30,16,66,22,8  
38,8,16,66,22,30  
22,30,16,66,38,8  
22,8,16,66,38,30  
37,32,16,67,21,7  
37,7,16,67,21,32  
21,32,16,67,37,7  
21,7,16,67,37,32  
30,16,16,76,28,14  
30,14,16,76,28,16  
28,16,16,76,30,14  
28,14,16,76,30,16  
30,22,16,82,22,8  
30,8,16,82,22,22  
22,22,16,82,30,8  
22,8,16,82,30,22  
77,30,17,17,13,26  
77,26,17,17,13,30  
30,77,17,17,26,13  
30,13,17,17,26,77  
26,77,17,17,30,13  
26,13,17,17,30,77  
13,30,17,17,77,26

13,26,17,17,77,30  
77,30,17,26,13,17  
77,17,17,26,13,30  
13,30,17,26,77,17  
13,17,17,26,77,30  
73,34,17,30,13,13  
77,26,17,30,13,17  
77,17,17,30,13,26  
73,13,17,30,13,34  
43,51,17,30,26,13  
43,13,17,30,26,51  
26,51,17,30,43,13  
26,13,17,30,43,51  
13,34,17,30,73,13  
13,13,17,30,73,34  
13,26,17,30,77,17  
13,17,17,30,77,26  
73,30,17,34,13,13  
73,13,17,34,13,30  
39,47,17,34,30,13  
39,13,17,34,30,47  
30,47,17,34,39,13  
30,13,17,34,39,47  
13,30,17,34,73,13  
13,13,17,34,73,30  
39,34,17,47,30,13  
39,13,17,47,30,34  
30,34,17,47,39,13  
30,13,17,47,39,34  
43,30,17,51,26,13  
43,13,17,51,26,30  
26,30,17,51,43,13  
26,13,17,51,43,30  
30,17,17,77,26,13  
30,13,17,77,26,17  
26,17,17,77,30,13  
26,13,17,77,30,17  
96,30,18,18,6,12  
96,12,18,18,6,30  
30,96,18,18,12,6  
78,30,18,18,12,24  
78,24,18,18,12,30  
30,78,18,18,24,12  
30,12,18,18,24,78

12,96,18,18,30,6  
24,78,18,18,30,12  
24,12,18,18,30,78  
12,30,18,18,78,24  
12,24,18,18,78,30  
30,81,18,21,21,9  
30,9,18,21,21,81  
21,81,18,21,30,9  
21,9,18,21,30,81  
78,48,18,24,6,6  
78,6,18,24,6,48  
78,30,18,24,12,18  
78,18,18,24,12,30  
54,30,18,24,24,30  
39,57,18,24,27,15  
39,15,18,24,27,57  
30,66,18,24,30,12  
30,12,18,24,30,66  
27,57,18,24,39,15  
27,15,18,24,39,57  
24,30,18,24,54,30  
6,48,18,24,78,6  
12,30,18,24,78,18  
12,18,18,24,78,30  
6,6,18,24,78,48  
96,18,18,30,6,12  
96,12,18,30,6,18  
24,93,18,30,12,3  
48,66,18,30,12,6  
72,36,18,30,12,12  
78,24,18,30,12,18  
78,18,18,30,12,24  
72,12,18,30,12,36  
48,6,18,30,12,66  
54,48,18,30,18,12  
54,12,18,30,18,48  
39,63,18,30,21,9  
39,9,18,30,21,63  
12,93,18,30,24,3  
24,78,18,30,24,6  
42,54,18,30,24,12  
54,30,18,30,24,24  
54,24,18,30,24,30  
42,12,18,30,24,54

24,6,18,30,24,78  
21,63,18,30,39,9  
21,9,18,30,39,63  
24,54,18,30,42,12  
24,12,18,30,42,54  
12,66,18,30,48,6  
12,6,18,30,48,66  
18,48,18,30,54,12  
24,30,18,30,54,24  
24,24,18,30,54,30  
18,12,18,30,54,48  
12,36,18,30,72,12  
12,12,18,30,72,36  
12,24,18,30,78,18  
12,18,18,30,78,24  
63,39,18,33,15,12  
63,12,18,33,15,39  
15,39,18,33,63,12  
15,12,18,33,63,39  
72,30,18,36,12,12  
72,12,18,36,12,30  
36,66,18,36,18,6  
36,6,18,36,18,66  
36,48,18,36,30,12  
36,12,18,36,30,48  
18,66,18,36,36,6  
30,48,18,36,36,12  
30,12,18,36,36,48  
18,6,18,36,36,66  
12,30,18,36,72,12  
12,12,18,36,72,30  
46,64,18,38,10,4  
46,4,18,38,10,64  
10,64,18,38,46,4  
10,4,18,38,46,64  
24,81,18,39,15,3  
63,33,18,39,15,12  
63,12,18,39,15,33  
24,3,18,39,15,81  
15,81,18,39,24,3  
15,3,18,39,24,81  
15,33,18,39,63,12  
15,12,18,39,63,33  
54,48,18,42,12,6

54,6,18,42,12,48  
12,48,18,42,54,6  
12,6,18,42,54,48  
93,12,18,48,3,6  
93,6,18,48,3,12  
78,24,18,48,6,6  
84,12,18,48,6,12  
78,6,18,48,6,24  
54,42,18,48,12,6  
54,6,18,48,12,42  
27,69,18,48,15,3  
27,3,18,48,15,69  
54,30,18,48,18,12  
54,12,18,48,18,30  
30,54,18,48,24,6  
30,6,18,48,24,54  
15,69,18,48,27,3  
15,3,18,48,27,69  
24,54,18,48,30,6  
36,36,18,48,30,12  
36,12,18,48,30,36  
24,6,18,48,30,54  
30,36,18,48,36,12  
30,12,18,48,36,36  
12,42,18,48,54,6  
18,30,18,48,54,12  
18,12,18,48,54,30  
12,6,18,48,54,42  
6,24,18,48,78,6  
6,6,18,48,78,24  
6,12,18,48,84,12  
30,48,18,54,24,6  
42,30,18,54,24,12  
42,12,18,54,24,30  
30,6,18,54,24,48  
24,48,18,54,30,6  
24,6,18,54,30,48  
24,30,18,54,42,12  
24,12,18,54,42,30  
69,15,18,57,9,12  
69,12,18,57,9,15  
39,24,18,57,27,15  
39,15,18,57,27,24  
27,24,18,57,39,15

27,15,18,57,39,24  
9,15,18,57,69,12  
9,12,18,57,69,15  
39,30,18,63,21,9  
39,9,18,63,21,30  
21,30,18,63,39,9  
21,9,18,63,39,30  
46,38,18,64,10,4  
46,4,18,64,10,38  
10,38,18,64,46,4  
10,4,18,64,46,38  
48,30,18,66,12,6  
48,6,18,66,12,30  
36,36,18,66,18,6  
36,6,18,66,18,36  
30,24,18,66,30,12  
30,12,18,66,30,24  
18,36,18,66,36,6  
18,6,18,66,36,36  
12,30,18,66,48,6  
12,6,18,66,48,30  
27,48,18,69,15,3  
27,3,18,69,15,48  
15,48,18,69,27,3  
15,3,18,69,27,48  
54,15,18,75,9,9  
54,9,18,75,9,15  
9,15,18,75,54,9  
9,9,18,75,54,15  
24,30,18,78,24,6  
30,18,18,78,24,12  
30,12,18,78,24,18  
24,6,18,78,24,30  
24,18,18,78,30,12  
24,12,18,78,30,18  
24,39,18,81,15,3  
24,3,18,81,15,39  
30,21,18,81,21,9  
30,9,18,81,21,21  
15,39,18,81,24,3  
15,3,18,81,24,39  
21,21,18,81,30,9  
21,9,18,81,30,21  
42,12,18,84,12,12

12,12,18,84,42,12  
39,15,18,87,12,9  
39,9,18,87,12,15  
12,15,18,87,39,9  
12,9,18,87,39,15  
79,30,19,19,11,22  
79,22,19,19,11,30  
30,79,19,19,22,11  
30,11,19,19,22,79  
22,79,19,19,30,11  
22,11,19,19,30,79  
11,30,19,19,79,22  
11,22,19,19,79,30  
79,30,19,22,11,19  
79,19,19,22,11,30  
11,30,19,22,79,19  
11,19,19,22,79,30  
71,38,19,30,11,11  
79,22,19,30,11,19  
79,19,19,30,11,22  
71,11,19,30,11,38  
41,57,19,30,22,11  
41,11,19,30,22,57  
22,57,19,30,41,11  
22,11,19,30,41,57  
11,38,19,30,71,11  
11,11,19,30,71,38  
11,22,19,30,79,19  
11,19,19,30,79,22  
71,30,19,38,11,11  
71,11,19,38,11,30  
33,49,19,38,30,11  
33,11,19,38,30,49  
30,49,19,38,33,11  
30,11,19,38,33,49  
11,30,19,38,71,11  
11,11,19,38,71,30  
33,38,19,49,30,11  
33,11,19,49,30,38  
30,38,19,49,33,11  
30,11,19,49,33,38  
41,30,19,57,22,11  
41,11,19,57,22,30  
22,30,19,57,41,11

22,11,19,57,41,30  
30,19,19,79,22,11  
30,11,19,79,22,19  
22,19,19,79,30,11  
22,11,19,79,30,19  
95,30,20,20,5,10  
95,10,20,20,5,30  
30,95,20,20,10,5  
80,30,20,20,10,20  
80,20,20,20,10,30  
30,80,20,20,20,10  
30,10,20,20,20,80  
10,95,20,20,30,5  
20,80,20,20,30,10  
20,10,20,20,30,80  
10,30,20,20,80,20  
10,20,20,20,80,30  
95,20,20,30,5,10  
95,10,20,30,5,20  
70,40,20,30,10,10  
80,20,20,30,10,20  
70,10,20,30,10,40  
40,60,20,30,20,10  
40,10,20,30,20,60  
20,60,20,30,40,10  
20,10,20,30,40,60  
10,40,20,30,70,10  
10,10,20,30,70,40  
10,20,20,30,80,20  
70,30,20,40,10,10  
70,10,20,40,10,30  
35,65,20,40,15,5  
35,5,20,40,15,65  
30,50,20,40,30,10  
30,10,20,40,30,50  
15,65,20,40,35,5  
15,5,20,40,35,65  
10,30,20,40,70,10  
10,10,20,40,70,30  
30,40,20,50,30,10  
30,10,20,50,30,40  
40,30,20,60,20,10  
40,10,20,60,20,30  
20,30,20,60,40,10

20,10,20,60,40,30  
35,40,20,65,15,5  
35,5,20,65,15,40  
15,40,20,65,35,5  
15,5,20,65,35,40  
30,20,20,80,20,10  
30,10,20,80,20,20  
20,20,20,80,30,10  
20,10,20,80,30,20  
81,30,21,21,9,18  
81,18,21,21,9,30  
30,81,21,21,18,9  
30,9,21,21,18,81  
18,81,21,21,30,9  
18,9,21,21,30,81  
9,30,21,21,81,18  
9,18,21,21,81,30  
69,42,21,30,9,9  
81,21,21,30,9,18  
81,18,21,30,9,21  
69,9,21,30,9,42  
39,63,21,30,18,9  
39,9,21,30,18,63  
18,63,21,30,39,9  
18,9,21,30,39,63  
9,42,21,30,69,9  
9,9,21,30,69,42  
9,21,21,30,81,18  
9,18,21,30,81,21  
37,67,21,32,16,7  
37,7,21,32,16,67  
16,67,21,32,37,7  
16,7,21,32,37,67  
48,54,21,33,15,9  
48,9,21,33,15,54  
15,54,21,33,48,9  
15,9,21,33,48,54  
69,30,21,42,9,9  
69,9,21,42,9,30  
27,75,21,42,12,3  
27,3,21,42,12,75  
12,75,21,42,27,3  
30,51,21,42,27,9  
30,9,21,42,27,51

12,3,21,42,27,75  
27,51,21,42,30,9  
27,9,21,42,30,51  
9,30,21,42,69,9  
9,9,21,42,69,30  
30,53,21,46,23,7  
30,7,21,46,23,53  
23,53,21,46,30,7  
23,7,21,46,30,53  
30,42,21,51,27,9  
30,9,21,51,27,42  
27,42,21,51,30,9  
27,9,21,51,30,42  
30,46,21,53,23,7  
30,7,21,53,23,46  
23,46,21,53,30,7  
23,7,21,53,30,46  
24,63,21,54,15,3  
48,33,21,54,15,9  
48,9,21,54,15,33  
24,3,21,54,15,63  
15,63,21,54,24,3  
15,3,21,54,24,63  
15,33,21,54,48,9  
15,9,21,54,48,33  
24,54,21,63,15,3  
24,3,21,63,15,54  
39,30,21,63,18,9  
39,9,21,63,18,30  
15,54,21,63,24,3  
15,3,21,63,24,54  
18,30,21,63,39,9  
18,9,21,63,39,30  
37,32,21,67,16,7  
37,7,21,67,16,32  
16,32,21,67,37,7  
16,7,21,67,37,32  
57,12,21,75,6,9  
57,9,21,75,6,12  
27,42,21,75,12,3  
27,3,21,75,12,42  
12,42,21,75,27,3  
12,3,21,75,27,42  
6,12,21,75,57,9

6,9,21,75,57,12  
30,21,21,81,18,9  
30,9,21,81,18,21  
18,21,21,81,30,9  
18,9,21,81,30,21  
94,30,22,22,4,8  
94,8,22,22,4,30  
30,94,22,22,8,4  
82,30,22,22,8,16  
82,16,22,22,8,30  
30,82,22,22,16,8  
30,8,22,22,16,82  
8,94,22,22,30,4  
16,82,22,22,30,8  
16,8,22,22,30,82  
8,30,22,22,82,16  
8,16,22,22,82,30  
28,70,22,26,24,10  
28,10,22,26,24,70  
24,70,22,26,28,10  
24,10,22,26,28,70  
94,22,22,30,4,8  
94,8,22,30,4,22  
68,44,22,30,8,8  
82,22,22,30,8,16  
82,16,22,30,8,22  
68,8,22,30,8,44  
38,66,22,30,16,8  
38,8,22,30,16,66  
41,57,22,30,19,11  
41,11,22,30,19,57  
16,66,22,30,38,8  
16,8,22,30,38,66  
19,57,22,30,41,11  
19,11,22,30,41,57  
8,44,22,30,68,8  
8,8,22,30,68,44  
8,22,22,30,82,16  
8,16,22,30,82,22  
68,30,22,44,8,8  
68,8,22,44,8,30  
34,64,22,44,12,4  
34,4,22,44,12,64  
30,52,22,44,24,8

30,8,22,44,24,52  
24,52,22,44,30,8  
24,8,22,44,30,52  
12,64,22,44,34,4  
12,4,22,44,34,64  
8,30,22,44,68,8  
8,8,22,44,68,30  
30,44,22,52,24,8  
30,8,22,52,24,44  
24,44,22,52,30,8  
24,8,22,52,30,44  
41,30,22,57,19,11  
41,11,22,57,19,30  
19,30,22,57,41,11  
19,11,22,57,41,30  
34,44,22,64,12,4  
34,4,22,64,12,44  
12,44,22,64,34,4  
12,4,22,64,34,44  
38,30,22,66,16,8  
38,8,22,66,16,30  
16,30,22,66,38,8  
16,8,22,66,38,30  
28,26,22,70,24,10  
28,10,22,70,24,26  
24,26,22,70,28,10  
24,10,22,70,28,26  
30,19,22,79,19,11  
30,11,22,79,19,19  
19,19,22,79,30,11  
19,11,22,79,30,19  
30,22,22,82,16,8  
30,8,22,82,16,22  
16,22,22,82,30,8  
16,8,22,82,30,22  
83,30,23,23,7,14  
83,14,23,23,7,30  
30,83,23,23,14,7  
30,7,23,23,14,83  
14,83,23,23,30,7  
14,7,23,23,30,83  
7,30,23,23,83,14  
7,14,23,23,83,30  
67,46,23,30,7,7

83,23,23,30,7,14  
83,14,23,30,7,23  
67,7,23,30,7,46  
37,69,23,30,14,7  
37,7,23,30,14,69  
14,69,23,30,37,7  
14,7,23,30,37,69  
7,46,23,30,67,7  
7,7,23,30,67,46  
7,23,23,30,83,14  
7,14,23,30,83,23  
67,30,23,46,7,7  
67,7,23,46,7,30  
30,53,23,46,21,7  
30,7,23,46,21,53  
21,53,23,46,30,7  
21,7,23,46,30,53  
7,30,23,46,67,7  
7,7,23,46,67,30  
30,46,23,53,21,7  
30,7,23,53,21,46  
21,46,23,53,30,7  
21,7,23,53,30,46  
37,30,23,69,14,7  
37,7,23,69,14,30  
14,30,23,69,37,7  
14,7,23,69,37,30  
30,23,23,83,14,7  
30,7,23,83,14,23  
14,23,23,83,30,7  
14,7,23,83,30,23  
93,30,24,24,3,6  
93,6,24,24,3,30  
30,93,24,24,6,3  
84,30,24,24,6,12  
84,12,24,24,6,30  
30,84,24,24,12,6  
30,6,24,24,12,84  
54,30,24,24,18,30  
6,93,24,24,30,3  
12,84,24,24,30,6  
30,54,24,24,30,18  
30,18,24,24,30,54  
12,6,24,24,30,84

18,30,24,24,54,30  
6,30,24,24,84,12  
6,12,24,24,84,30  
28,70,24,26,22,10  
28,10,24,26,22,70  
22,70,24,26,28,10  
22,10,24,26,28,70  
69,39,24,27,9,12  
69,12,24,27,9,39  
57,39,24,27,15,18  
57,18,24,27,15,39  
15,39,24,27,57,18  
15,18,24,27,57,39  
9,39,24,27,69,12  
9,12,24,27,69,39  
38,68,24,28,14,8  
38,8,24,28,14,68  
14,68,24,28,38,8  
14,8,24,28,38,68  
93,24,24,30,3,6  
93,6,24,30,3,24  
66,48,24,30,6,6  
84,24,24,30,6,12  
84,12,24,30,6,24  
66,6,24,30,6,48  
18,93,24,30,12,3  
36,72,24,30,12,6  
66,30,24,30,12,18  
66,18,24,30,12,30  
36,6,24,30,12,72  
12,93,24,30,18,3  
24,78,24,30,18,6  
42,54,24,30,18,12  
54,30,24,30,18,24  
54,24,24,30,18,30  
42,12,24,30,18,54  
24,6,24,30,18,78  
18,78,24,30,24,6  
18,6,24,30,24,78  
33,51,24,30,27,15  
33,15,24,30,27,51  
27,51,24,30,33,15  
27,15,24,30,33,51  
12,72,24,30,36,6

12,6,24,30,36,72  
18,54,24,30,42,12  
18,12,24,30,42,54  
18,30,24,30,54,24  
18,24,24,30,54,30  
6,48,24,30,66,6  
12,30,24,30,66,18  
12,18,24,30,66,30  
6,6,24,30,66,48  
6,24,24,30,84,12  
6,12,24,30,84,24  
16,94,24,34,10,2  
10,94,24,34,16,2  
30,75,24,39,9,3  
69,27,24,39,9,12  
69,12,24,39,9,27  
30,3,24,39,9,75  
18,81,24,39,15,3  
57,27,24,39,15,18  
57,18,24,39,15,27  
18,3,24,39,15,81  
15,81,24,39,18,3  
15,3,24,39,18,81  
9,75,24,39,30,3  
9,3,24,39,30,75  
15,27,24,39,57,18  
15,18,24,39,57,27  
9,27,24,39,69,12  
9,12,24,39,69,27  
42,54,24,42,12,6  
42,6,24,42,12,54  
12,54,24,42,42,6  
12,6,24,42,42,54  
30,52,24,44,22,8  
30,8,24,44,22,52  
22,52,24,44,30,8  
22,8,24,44,30,52  
66,30,24,48,6,6  
66,6,24,48,6,30  
33,63,24,48,9,3  
33,3,24,48,9,63  
30,54,24,48,18,6  
30,6,24,48,18,54  
18,54,24,48,30,6

18,6,24,48,30,54  
9,63,24,48,33,3  
9,3,24,48,33,63  
6,30,24,48,66,6  
6,6,24,48,66,30  
81,15,24,51,3,6  
81,6,24,51,3,15  
33,30,24,51,27,15  
33,15,24,51,27,30  
27,30,24,51,33,15  
27,15,24,51,33,30  
3,15,24,51,81,6  
3,6,24,51,81,15  
30,44,24,52,22,8  
30,8,24,52,22,44  
22,44,24,52,30,8  
22,8,24,52,30,44  
42,42,24,54,12,6  
42,6,24,54,12,42  
21,63,24,54,15,3  
21,3,24,54,15,63  
30,48,24,54,18,6  
42,30,24,54,18,12  
42,12,24,54,18,30  
30,6,24,54,18,48  
15,63,24,54,21,3  
15,3,24,54,21,63  
18,48,24,54,30,6  
30,24,24,54,30,18  
30,18,24,54,30,24  
18,6,24,54,30,48  
12,42,24,54,42,6  
18,30,24,54,42,12  
18,12,24,54,42,30  
12,6,24,54,42,42  
33,48,24,63,9,3  
33,3,24,63,9,48  
21,54,24,63,15,3  
21,3,24,63,15,54  
15,54,24,63,21,3  
15,3,24,63,21,54  
9,48,24,63,33,3  
9,3,24,63,33,48  
38,28,24,68,14,8

38,8,24,68,14,28  
14,28,24,68,38,8  
14,8,24,68,38,28  
28,26,24,70,22,10  
28,10,24,70,22,26  
22,26,24,70,28,10  
22,10,24,70,28,26  
36,30,24,72,12,6  
36,6,24,72,12,30  
12,30,24,72,36,6  
12,6,24,72,36,30  
30,39,24,75,9,3  
30,3,24,75,9,39  
9,39,24,75,30,3  
9,3,24,75,30,39  
48,18,24,78,6,6  
48,6,24,78,6,18  
24,30,24,78,18,6  
30,18,24,78,18,12  
30,12,24,78,18,18  
24,6,24,78,18,30  
18,30,24,78,24,6  
18,6,24,78,24,30  
18,18,24,78,30,12  
18,12,24,78,30,18  
6,18,24,78,48,6  
6,6,24,78,48,18  
18,39,24,81,15,3  
18,3,24,81,15,39  
15,39,24,81,18,3  
15,3,24,81,18,39  
30,24,24,84,12,6  
30,6,24,84,12,24  
12,24,24,84,30,6  
12,6,24,84,30,24  
85,30,25,25,5,10  
85,10,25,25,5,30  
30,85,25,25,10,5  
30,5,25,25,10,85  
10,85,25,25,30,5  
10,5,25,25,30,85  
5,30,25,25,85,10  
5,10,25,25,85,30  
65,50,25,30,5,5

85,25,25,30,5,10  
85,10,25,30,5,25  
65,5,25,30,5,50  
35,75,25,30,10,5  
35,5,25,30,10,75  
10,75,25,30,35,5  
10,5,25,30,35,75  
5,50,25,30,65,5  
5,5,25,30,65,50  
5,25,25,30,85,10  
5,10,25,30,85,25  
65,30,25,50,5,5  
65,5,25,50,5,30  
30,55,25,50,15,5  
30,5,25,50,15,55  
15,55,25,50,30,5  
15,5,25,50,30,55  
5,30,25,50,65,5  
5,5,25,50,65,30  
30,50,25,55,15,5  
30,5,25,55,15,50  
15,50,25,55,30,5  
15,5,25,55,30,50  
35,30,25,75,10,5  
35,5,25,75,10,30  
10,30,25,75,35,5  
10,5,25,75,35,30  
30,25,25,85,10,5  
30,5,25,85,10,25  
10,25,25,85,30,5  
10,5,25,85,30,25  
92,30,26,26,2,4  
92,4,26,26,2,30  
30,92,26,26,4,2  
86,30,26,26,4,8  
86,8,26,26,4,30  
30,86,26,26,8,4  
30,4,26,26,8,86  
4,92,26,26,30,2  
8,86,26,26,30,4  
8,4,26,26,30,86  
4,30,26,26,86,8  
4,8,26,26,86,30  
70,24,26,28,10,22

70,22,26,28,10,24  
10,24,26,28,70,22  
10,22,26,28,70,24  
92,26,26,30,2,4  
92,4,26,30,2,26  
64,52,26,30,4,4  
86,26,26,30,4,8  
86,8,26,30,4,26  
64,4,26,30,4,52  
34,78,26,30,8,4  
34,4,26,30,8,78  
43,51,26,30,17,13  
43,13,26,30,17,51  
8,78,26,30,34,4  
8,4,26,30,34,78  
17,51,26,30,43,13  
17,13,26,30,43,51  
4,52,26,30,64,4  
4,4,26,30,64,52  
4,26,26,30,86,8  
4,8,26,30,86,26  
43,30,26,51,17,13  
43,13,26,51,17,30  
17,30,26,51,43,13  
17,13,26,51,43,30  
64,30,26,52,4,4  
64,4,26,52,4,30  
32,62,26,52,6,2  
32,2,26,52,6,62  
30,56,26,52,12,4  
30,4,26,52,12,56  
12,56,26,52,30,4  
12,4,26,52,30,56  
6,62,26,52,32,2  
6,2,26,52,32,62  
4,30,26,52,64,4  
4,4,26,52,64,30  
30,52,26,56,12,4  
30,4,26,56,12,52  
12,52,26,56,30,4  
12,4,26,56,30,52  
32,52,26,62,6,2  
32,2,26,62,6,52  
6,52,26,62,32,2

6,2,26,62,32,52  
30,17,26,77,17,13  
30,13,26,77,17,17  
17,17,26,77,30,13  
17,13,26,77,30,17  
34,30,26,78,8,4  
34,4,26,78,8,30  
8,30,26,78,34,4  
8,4,26,78,34,30  
30,26,26,86,8,4  
30,4,26,86,8,26  
8,26,26,86,30,4  
8,4,26,86,30,26  
87,30,27,27,3,6  
87,6,27,27,3,30  
30,87,27,27,6,3  
30,3,27,27,6,87  
6,87,27,27,30,3  
6,3,27,27,30,87  
3,30,27,27,87,6  
3,6,27,27,87,30  
63,54,27,30,3,3  
87,27,27,30,3,6  
87,6,27,30,3,27  
63,3,27,30,3,54  
33,81,27,30,6,3  
33,3,27,30,6,81  
33,51,27,30,24,15  
33,15,27,30,24,51  
6,81,27,30,33,3  
24,51,27,30,33,15  
24,15,27,30,33,51  
6,3,27,30,33,81  
3,54,27,30,63,3  
3,3,27,30,63,54  
3,27,27,30,87,6  
3,6,27,30,87,27  
21,75,27,42,12,3  
21,3,27,42,12,75  
12,75,27,42,21,3  
30,51,27,42,21,9  
30,9,27,42,21,51  
12,3,27,42,21,75  
21,51,27,42,30,9

21,9,27,42,30,51  
18,69,27,48,15,3  
18,3,27,48,15,69  
15,69,27,48,18,3  
15,3,27,48,18,69  
30,42,27,51,21,9  
30,9,27,51,21,42  
33,30,27,51,24,15  
33,15,27,51,24,30  
21,42,27,51,30,9  
21,9,27,51,30,42  
24,30,27,51,33,15  
24,15,27,51,33,30  
63,30,27,54,3,3  
63,3,27,54,3,30  
30,57,27,54,9,3  
30,3,27,54,9,57  
9,57,27,54,30,3  
9,3,27,54,30,57  
3,30,27,54,63,3  
3,3,27,54,63,30  
30,54,27,57,9,3  
30,3,27,57,9,54  
39,24,27,57,18,15  
39,15,27,57,18,24  
9,54,27,57,30,3  
9,3,27,57,30,54  
18,24,27,57,39,15  
18,15,27,57,39,24  
39,24,27,69,12,9  
39,9,27,69,12,24  
18,48,27,69,15,3  
18,3,27,69,15,48  
15,48,27,69,18,3  
15,3,27,69,18,48  
12,24,27,69,39,9  
12,9,27,69,39,24  
21,42,27,75,12,3  
21,3,27,75,12,42  
12,42,27,75,21,3  
12,3,27,75,21,42  
33,30,27,81,6,3  
33,3,27,81,6,30  
6,30,27,81,33,3



6,3,27,81,33,30  
30,27,27,87,6,3  
30,3,27,87,6,27  
6,27,27,87,30,3  
6,3,27,87,30,27  
91,30,28,28,1,2  
91,2,28,28,1,30  
30,91,28,28,2,1  
88,30,28,28,2,4  
88,4,28,28,2,30  
30,88,28,28,4,2  
30,2,28,28,4,88  
2,91,28,28,30,1  
4,88,28,28,30,2  
4,2,28,28,30,88  
2,30,28,28,88,4  
2,4,28,28,88,30  
91,28,28,30,1,2  
91,2,28,30,1,28  
62,56,28,30,2,2  
88,28,28,30,2,4  
88,4,28,30,2,28  
62,2,28,30,2,56  
32,84,28,30,4,2  
32,2,28,30,4,84  
44,48,28,30,16,14  
44,14,28,30,16,48  
4,84,28,30,32,2  
4,2,28,30,32,84  
16,48,28,30,44,14  
16,14,28,30,44,48  
2,56,28,30,62,2  
2,2,28,30,62,56  
2,28,28,30,88,4  
2,4,28,30,88,28  
68,24,28,38,8,14  
68,14,28,38,8,24  
8,24,28,38,68,14  
8,14,28,38,68,24  
44,30,28,48,16,14  
44,14,28,48,16,30  
16,30,28,48,44,14  
16,14,28,48,44,30  
62,30,28,56,2,2

62,2,28,56,2,30  
31,61,28,56,3,1  
31,1,28,56,3,61  
30,58,28,56,6,2  
30,2,28,56,6,58  
6,58,28,56,30,2  
6,2,28,56,30,58  
3,61,28,56,31,1  
3,1,28,56,31,61  
2,30,28,56,62,2  
2,2,28,56,62,30  
30,56,28,58,6,2  
30,2,28,58,6,56  
6,56,28,58,30,2  
6,2,28,58,30,56  
31,56,28,61,3,1  
31,1,28,61,3,56  
3,56,28,61,31,1  
3,1,28,61,31,56  
24,26,28,70,22,10  
24,10,28,70,22,26  
22,26,28,70,24,10  
22,10,28,70,24,26  
30,16,28,76,16,14  
30,14,28,76,16,16  
16,16,28,76,30,14  
16,14,28,76,30,16  
32,30,28,84,4,2  
32,2,28,84,4,30  
4,30,28,84,32,2  
4,2,28,84,32,30  
30,28,28,88,4,2  
30,2,28,88,4,28  
4,28,28,88,30,2  
4,2,28,88,30,28  
89,30,29,29,1,2  
89,2,29,29,1,30  
30,89,29,29,2,1  
30,1,29,29,2,89  
2,89,29,29,30,1  
2,1,29,29,30,89  
1,30,29,29,89,2  
1,2,29,29,89,30  
61,58,29,30,1,1

89,29,29,30,1,2  
89,2,29,30,1,29  
61,1,29,30,1,58  
31,87,29,30,2,1  
31,1,29,30,2,87  
2,87,29,30,31,1  
2,1,29,30,31,87  
1,58,29,30,61,1  
1,1,29,30,61,58  
1,29,29,30,89,2  
1,2,29,30,89,29  
61,30,29,58,1,1  
61,1,29,58,1,30  
30,59,29,58,3,1  
30,1,29,58,3,59  
3,59,29,58,30,1  
3,1,29,58,30,59  
1,30,29,58,61,1  
1,1,29,58,61,30  
30,58,29,59,3,1  
30,1,29,59,3,58  
3,58,29,59,30,1  
3,1,29,59,30,58  
31,30,29,87,2,1  
31,1,29,87,2,30  
2,30,29,87,31,1  
2,1,29,87,31,30  
30,29,29,89,2,1  
30,1,29,89,2,29  
2,29,29,89,30,1  
2,1,29,89,30,29  
87,29,30,31,1,2  
87,2,30,31,1,29  
1,29,30,31,87,2  
1,2,30,31,87,29  
84,28,30,32,2,4  
84,4,30,32,2,28  
42,46,30,32,16,14  
42,14,30,32,16,46  
16,46,30,32,42,14  
16,14,30,32,42,46  
2,28,30,32,84,4  
2,4,30,32,84,28  
81,27,30,33,3,6

81,6,30,33,3,27  
51,27,30,33,15,24  
51,24,30,33,15,27  
15,27,30,33,51,24  
15,24,30,33,51,27  
3,27,30,33,81,6  
3,6,30,33,81,27  
78,26,30,34,4,8  
78,8,30,34,4,26  
39,47,30,34,17,13  
39,13,30,34,17,47  
17,47,30,34,39,13  
17,13,30,34,39,47  
4,26,30,34,78,8  
4,8,30,34,78,26  
75,25,30,35,5,10  
75,10,30,35,5,25  
5,25,30,35,75,10  
5,10,30,35,75,25  
72,24,30,36,6,12  
72,12,30,36,6,24  
36,48,30,36,18,12  
36,12,30,36,18,48  
18,48,30,36,36,12  
18,12,30,36,36,48  
6,24,30,36,72,12  
6,12,30,36,72,24  
69,23,30,37,7,14  
69,14,30,37,7,23  
7,23,30,37,69,14  
7,14,30,37,69,23  
66,22,30,38,8,16  
66,16,30,38,8,22  
33,49,30,38,19,11  
33,11,30,38,19,49  
19,49,30,38,33,11  
19,11,30,38,33,49  
8,22,30,38,66,16  
8,16,30,38,66,22  
24,75,30,39,9,3  
63,21,30,39,9,18  
63,18,30,39,9,21  
24,3,30,39,9,75  
9,75,30,39,24,3

9,3,30,39,24,75  
9,21,30,39,63,18  
9,18,30,39,63,21  
60,20,30,40,10,20  
30,50,30,40,20,10  
30,10,30,40,20,50  
20,50,30,40,30,10  
20,10,30,40,30,50  
10,20,30,40,60,20  
57,22,30,41,11,19  
57,19,30,41,11,22  
11,22,30,41,57,19  
11,19,30,41,57,22  
54,24,30,42,12,18  
54,18,30,42,12,24  
27,51,30,42,21,9  
27,9,30,42,21,51  
21,51,30,42,27,9  
21,9,30,42,27,51  
12,24,30,42,54,18  
12,18,30,42,54,24  
51,26,30,43,13,17  
51,17,30,43,13,26  
13,26,30,43,51,17  
13,17,30,43,51,26  
48,28,30,44,14,16  
48,16,30,44,14,28  
24,52,30,44,22,8  
24,8,30,44,22,52  
22,52,30,44,24,8  
22,8,30,44,24,52  
14,28,30,44,48,16  
14,16,30,44,48,28  
42,32,30,46,16,14  
42,14,30,46,16,32  
23,53,30,46,21,7  
23,7,30,46,21,53  
21,53,30,46,23,7  
21,7,30,46,23,53  
16,32,30,46,42,14  
16,14,30,46,42,32  
39,34,30,47,17,13  
39,13,30,47,17,34  
17,34,30,47,39,13

17,13,30,47,39,34  
66,18,30,48,6,12  
66,12,30,48,6,18  
24,54,30,48,18,6  
36,36,30,48,18,12  
36,12,30,48,18,36  
24,6,30,48,18,54  
18,54,30,48,24,6  
18,6,30,48,24,54  
18,36,30,48,36,12  
18,12,30,48,36,36  
6,18,30,48,66,12  
6,12,30,48,66,18  
33,38,30,49,19,11  
33,11,30,49,19,38  
19,38,30,49,33,11  
19,11,30,49,33,38  
25,55,30,50,15,5  
25,5,30,50,15,55  
30,40,30,50,20,10  
30,10,30,50,20,40  
15,55,30,50,25,5  
15,5,30,50,25,55  
20,40,30,50,30,10  
20,10,30,50,30,40  
75,12,30,51,3,9  
75,9,30,51,3,12  
27,42,30,51,21,9  
27,9,30,51,21,42  
21,42,30,51,27,9  
21,9,30,51,27,42  
3,12,30,51,75,9  
3,9,30,51,75,12  
26,56,30,52,12,4  
26,4,30,52,12,56  
24,44,30,52,22,8  
24,8,30,52,22,44  
22,44,30,52,24,8  
22,8,30,52,24,44  
12,56,30,52,26,4  
12,4,30,52,26,56  
23,46,30,53,21,7  
23,7,30,53,21,46  
21,46,30,53,23,7

21,7,30,53,23,46  
27,57,30,54,9,3  
27,3,30,54,9,57  
48,18,30,54,12,18  
24,48,30,54,18,6  
24,6,30,54,18,48  
18,48,30,54,24,6  
30,24,30,54,24,18  
30,18,30,54,24,24  
18,6,30,54,24,48  
9,57,30,54,27,3  
9,3,30,54,27,57  
24,24,30,54,30,18  
24,18,30,54,30,24  
12,18,30,54,48,18  
25,50,30,55,15,5  
25,5,30,55,15,50  
15,50,30,55,25,5  
15,5,30,55,25,50  
28,58,30,56,6,2  
28,2,30,56,6,58  
26,52,30,56,12,4  
26,4,30,56,12,52  
12,52,30,56,26,4  
12,4,30,56,26,52  
6,58,30,56,28,2  
6,2,30,56,28,58  
27,54,30,57,9,3  
27,3,30,57,9,54  
9,54,30,57,27,3  
9,3,30,57,27,54  
29,59,30,58,3,1  
29,1,30,58,3,59  
28,56,30,58,6,2  
28,2,30,58,6,56  
6,56,30,58,28,2  
6,2,30,58,28,56  
3,59,30,58,29,1  
3,1,30,58,29,59  
29,58,30,59,3,1  
29,1,30,59,3,58  
3,58,30,59,29,1  
3,1,30,59,29,58  
58,29,30,61,1,1

58,1,30,61,1,29  
1,29,30,61,58,1  
1,1,30,61,58,29  
56,28,30,62,2,2  
56,2,30,62,2,28  
2,28,30,62,56,2  
2,2,30,62,56,28  
54,27,30,63,3,3  
54,3,30,63,3,27  
3,27,30,63,54,3  
3,3,30,63,54,27  
52,26,30,64,4,4  
52,4,30,64,4,26  
4,26,30,64,52,4  
4,4,30,64,52,26  
50,25,30,65,5,5  
50,5,30,65,5,25  
5,25,30,65,50,5  
5,5,30,65,50,25  
48,24,30,66,6,6  
48,6,30,66,6,24  
30,24,30,66,18,12  
30,12,30,66,18,24  
18,24,30,66,30,12  
18,12,30,66,30,24  
6,24,30,66,48,6  
6,6,30,66,48,24  
46,23,30,67,7,7  
46,7,30,67,7,23  
7,23,30,67,46,7  
7,7,30,67,46,23  
44,22,30,68,8,8  
44,8,30,68,8,22  
8,22,30,68,44,8  
8,8,30,68,44,22  
42,21,30,69,9,9  
42,9,30,69,9,21  
9,21,30,69,42,9  
9,9,30,69,42,21  
40,20,30,70,10,10  
40,10,30,70,10,20  
10,20,30,70,40,10  
10,10,30,70,40,20  
38,19,30,71,11,11

38,11,30,71,11,19  
11,19,30,71,38,11  
11,11,30,71,38,19  
36,18,30,72,12,12  
36,12,30,72,12,18  
12,18,30,72,36,12  
12,12,30,72,36,18  
34,17,30,73,13,13  
34,13,30,73,13,17  
13,17,30,73,34,13  
13,13,30,73,34,17  
32,16,30,74,14,14  
32,14,30,74,14,16  
14,16,30,74,32,14  
14,14,30,74,32,16  
24,39,30,75,9,3  
24,3,30,75,9,39  
9,39,30,75,24,3  
9,3,30,75,24,39  
28,16,30,76,16,14  
28,14,30,76,16,16  
16,16,30,76,28,14  
16,14,30,76,28,16  
26,17,30,77,17,13  
26,13,30,77,17,17  
17,17,30,77,26,13  
17,13,30,77,26,17  
24,18,30,78,18,12  
24,12,30,78,18,18  
18,18,30,78,24,12  
18,12,30,78,24,18  
22,19,30,79,19,11  
22,11,30,79,19,19  
19,19,30,79,22,11  
19,11,30,79,22,19  
20,20,30,80,20,10  
20,10,30,80,20,20  
21,21,30,81,18,9  
21,9,30,81,18,21  
18,21,30,81,21,9  
18,9,30,81,21,21  
22,22,30,82,16,8  
22,8,30,82,16,22  
16,22,30,82,22,8

16,8,30,82,22,22  
23,23,30,83,14,7  
23,7,30,83,14,23  
14,23,30,83,23,7  
14,7,30,83,23,23  
24,24,30,84,12,6  
24,6,30,84,12,24  
12,24,30,84,24,6  
12,6,30,84,24,24  
25,25,30,85,10,5  
25,5,30,85,10,25  
10,25,30,85,25,5  
10,5,30,85,25,25  
26,26,30,86,8,4  
26,4,30,86,8,26  
8,26,30,86,26,4  
8,4,30,86,26,26  
27,27,30,87,6,3  
27,3,30,87,6,27  
6,27,30,87,27,3  
6,3,30,87,27,27  
28,28,30,88,4,2  
28,2,30,88,4,28  
4,28,30,88,28,2  
4,2,30,88,28,28  
29,29,30,89,2,1  
29,1,30,89,2,29  
2,29,30,89,29,1  
2,1,30,89,29,29  
28,61,31,56,3,1  
28,1,31,56,3,61  
3,61,31,56,28,1  
3,1,31,56,28,61  
28,56,31,61,3,1  
28,1,31,61,3,56  
3,56,31,61,28,1  
3,1,31,61,28,56  
29,30,31,87,2,1  
29,1,31,87,2,30  
2,30,31,87,29,1  
2,1,31,87,29,30  
67,21,32,37,7,16  
67,16,32,37,7,21  
7,21,32,37,67,16

7,16,32,37,67,21  
46,30,32,42,14,16  
46,16,32,42,14,30  
14,30,32,42,46,16  
14,16,32,42,46,30  
26,62,32,52,6,2  
26,2,32,52,6,62  
6,62,32,52,26,2  
6,2,32,52,26,62  
26,52,32,62,6,2  
26,2,32,62,6,52  
6,52,32,62,26,2  
6,2,32,62,26,52  
30,16,32,74,14,14  
30,14,32,74,14,16  
14,16,32,74,30,14  
14,14,32,74,30,16  
28,30,32,84,4,2  
28,2,32,84,4,30  
4,30,32,84,28,2  
4,2,32,84,28,30  
30,49,33,38,19,11  
30,11,33,38,19,49  
19,49,33,38,30,11  
19,11,33,38,30,49  
24,63,33,48,9,3  
54,21,33,48,9,15  
54,15,33,48,9,21  
24,3,33,48,9,63  
9,63,33,48,24,3  
9,3,33,48,24,63  
9,21,33,48,54,15  
9,15,33,48,54,21  
30,38,33,49,19,11  
30,11,33,49,19,38  
19,38,33,49,30,11  
19,11,33,49,30,38  
27,30,33,51,24,15  
27,15,33,51,24,30  
24,30,33,51,27,15  
24,15,33,51,27,30  
24,48,33,63,9,3  
24,3,33,63,9,48  
39,18,33,63,12,15

39,15,33,63,12,18  
9,48,33,63,24,3  
9,3,33,63,24,48  
12,18,33,63,39,15  
12,15,33,63,39,18  
41,16,33,71,8,11  
41,11,33,71,8,16  
8,16,33,71,41,11  
8,11,33,71,41,16  
27,30,33,81,6,3  
27,3,33,81,6,30  
6,30,33,81,27,3  
6,3,33,81,27,30  
47,30,34,39,13,17  
47,17,34,39,13,30  
13,30,34,39,47,17  
13,17,34,39,47,30  
22,64,34,44,12,4  
22,4,34,44,12,64  
12,64,34,44,22,4  
12,4,34,44,22,64  
22,44,34,64,12,4  
22,4,34,64,12,44  
12,44,34,64,22,4  
12,4,34,64,22,44  
30,17,34,73,13,13  
30,13,34,73,13,17  
13,17,34,73,30,13  
13,13,34,73,30,17  
26,30,34,78,8,4  
26,4,34,78,8,30  
8,30,34,78,26,4  
8,4,34,78,26,30  
20,65,35,40,15,5  
20,5,35,40,15,65  
15,65,35,40,20,5  
15,5,35,40,20,65  
20,40,35,65,15,5  
20,5,35,65,15,40  
15,40,35,65,20,5  
15,5,35,65,20,40  
25,30,35,75,10,5  
25,5,35,75,10,30  
10,30,35,75,25,5

10,5,35,75,25,30  
66,18,36,36,6,18  
48,30,36,36,12,18  
48,18,36,36,12,30  
18,66,36,36,18,6  
30,48,36,36,18,12  
30,12,36,36,18,48  
18,6,36,36,18,66  
18,48,36,36,30,12  
18,12,36,36,30,48  
12,30,36,36,48,18  
12,18,36,36,48,30  
6,18,36,36,66,18  
30,36,36,48,18,12  
30,12,36,48,18,36  
18,36,36,48,30,12  
18,12,36,48,30,36  
18,36,36,66,18,6  
18,6,36,66,18,36  
42,12,36,72,6,12  
24,30,36,72,12,6  
30,18,36,72,12,12  
30,12,36,72,12,18  
24,6,36,72,12,30  
12,30,36,72,24,6  
12,6,36,72,24,30  
12,18,36,72,30,12  
12,12,36,72,30,18  
6,12,36,72,42,12  
21,32,37,67,16,7  
21,7,37,67,16,32  
16,32,37,67,21,7  
16,7,37,67,21,32  
23,30,37,69,14,7  
23,7,37,69,14,30  
14,30,37,69,23,7  
14,7,37,69,23,30  
64,18,38,46,4,10  
64,10,38,46,4,18  
4,18,38,46,64,10  
4,10,38,46,64,18  
22,30,38,66,16,8  
22,8,38,66,16,30  
16,30,38,66,22,8

16,8,38,66,22,30  
24,28,38,68,14,8  
24,8,38,68,14,28  
14,28,38,68,24,8  
14,8,38,68,24,28  
30,19,38,71,11,11  
30,11,38,71,11,19  
11,19,38,71,30,11  
11,11,38,71,30,19  
30,34,39,47,17,13  
30,13,39,47,17,34  
17,34,39,47,30,13  
17,13,39,47,30,34  
66,15,39,48,3,9  
66,9,39,48,3,15  
3,15,39,48,66,9  
3,9,39,48,66,15  
27,24,39,57,18,15  
27,15,39,57,18,24  
18,24,39,57,27,15  
18,15,39,57,27,24  
33,18,39,63,12,15  
33,15,39,63,12,18  
21,30,39,63,18,9  
21,9,39,63,18,30  
18,30,39,63,21,9  
18,9,39,63,21,30  
12,18,39,63,33,15  
12,15,39,63,33,18  
27,24,39,69,12,9  
27,9,39,69,12,24  
12,24,39,69,27,9  
12,9,39,69,27,24  
43,13,39,73,4,8  
43,8,39,73,4,13  
4,13,39,73,43,8  
4,8,39,73,43,13  
18,15,39,87,12,9  
18,9,39,87,12,15  
12,15,39,87,18,9  
12,9,39,87,18,15  
20,30,40,60,20,10  
20,10,40,60,20,30  
30,20,40,70,10,10

30,10,40,70,10,20  
10,20,40,70,30,10  
10,10,40,70,30,20  
22,30,41,57,19,11  
22,11,41,57,19,30  
19,30,41,57,22,11  
19,11,41,57,22,30  
33,16,41,71,8,11  
33,11,41,71,8,16  
8,16,41,71,33,11  
8,11,41,71,33,16  
54,24,42,42,6,12  
54,12,42,42,6,24  
24,54,42,42,12,6  
24,6,42,42,12,54  
12,54,42,42,24,6  
12,6,42,42,24,54  
6,24,42,42,54,12  
6,12,42,42,54,24  
30,32,42,46,16,14  
30,14,42,46,16,32  
16,32,42,46,30,14  
16,14,42,46,30,32  
48,18,42,54,6,12  
48,12,42,54,6,18  
24,42,42,54,12,6  
24,6,42,54,12,42  
24,30,42,54,18,12  
24,12,42,54,18,30  
12,42,42,54,24,6  
18,30,42,54,24,12  
18,12,42,54,24,30  
12,6,42,54,24,42  
6,18,42,54,48,12  
6,12,42,54,48,18  
30,21,42,69,9,9  
30,9,42,69,9,21  
9,21,42,69,30,9  
9,9,42,69,30,21  
36,12,42,72,6,12  
6,12,42,72,36,12  
44,14,42,74,2,4  
44,4,42,74,2,14  
2,14,42,74,44,4

2,4,42,74,44,14  
18,12,42,84,12,12  
12,12,42,84,18,12  
26,30,43,51,17,13  
26,13,43,51,17,30  
17,30,43,51,26,13  
17,13,43,51,26,30  
39,13,43,73,4,8  
39,8,43,73,4,13  
4,13,43,73,39,8  
4,8,43,73,39,13  
28,30,44,48,16,14  
28,14,44,48,16,30  
16,30,44,48,28,14  
16,14,44,48,28,30  
30,22,44,68,8,8  
30,8,44,68,8,22  
8,22,44,68,30,8  
8,8,44,68,30,22  
42,14,44,74,2,4  
42,4,44,74,2,14  
2,14,44,74,42,4  
2,4,44,74,42,14  
62,12,46,50,2,8  
62,8,46,50,2,12  
2,12,46,50,62,8  
2,8,46,50,62,12  
18,38,46,64,10,4  
18,4,46,64,10,38  
10,38,46,64,18,4  
10,4,46,64,18,38  
30,23,46,67,7,7  
30,7,46,67,7,23  
7,23,46,67,30,7  
7,7,46,67,30,23  
54,15,48,51,3,9  
54,9,48,51,3,15  
3,15,48,51,54,9  
3,9,48,51,54,15  
42,18,48,54,6,12  
42,12,48,54,6,18  
30,18,48,54,12,18  
21,33,48,54,15,9  
21,9,48,54,15,33

15,33,48,54,21,9  
15,9,48,54,21,33  
12,18,48,54,30,18  
6,18,48,54,42,12  
6,12,48,54,42,18  
30,24,48,66,6,6  
30,6,48,66,6,24  
15,39,48,66,9,3  
15,3,48,66,9,39  
18,30,48,66,12,6  
18,6,48,66,12,30  
9,39,48,66,15,3  
9,3,48,66,15,39  
12,30,48,66,18,6  
12,6,48,66,18,30  
6,24,48,66,30,6  
6,6,48,66,30,24  
24,18,48,78,6,6  
24,6,48,78,6,18  
6,18,48,78,24,6  
6,6,48,78,24,18  
15,15,48,81,12,9  
15,9,48,81,12,15  
12,15,48,81,15,9  
12,9,48,81,15,15  
12,18,48,84,12,6  
12,6,48,84,12,18  
12,46,50,62,8,2  
12,2,50,62,8,46  
8,46,50,62,12,2  
8,2,50,62,12,46  
30,25,50,65,5,5  
30,5,50,65,5,25  
5,25,50,65,30,5  
5,5,50,65,30,25  
15,48,51,54,9,3  
15,3,51,54,9,48  
9,48,51,54,15,3  
9,3,51,54,15,48  
12,30,51,75,9,3  
12,3,51,75,9,30  
9,30,51,75,12,3  
9,3,51,75,12,30  
15,24,51,81,6,3

15,3,51,81,6,24  
6,24,51,81,15,3  
6,3,51,81,15,24  
30,26,52,64,4,4  
30,4,52,64,4,26  
4,26,52,64,30,4  
4,4,52,64,30,26  
30,27,54,63,3,3  
30,3,54,63,3,27  
3,27,54,63,30,3  
3,3,54,63,30,27  
18,15,54,75,9,9  
18,9,54,75,9,15  
9,15,54,75,18,9  
9,9,54,75,18,15  
30,28,56,62,2,2  
30,2,56,62,2,28  
2,28,56,62,30,2  
2,2,56,62,30,28  
15,18,57,69,12,9  
15,9,57,69,12,18  
12,18,57,69,15,9  
12,9,57,69,15,18  
21,12,57,75,6,9  
21,9,57,75,6,12  
6,12,57,75,21,9  
6,9,57,75,21,12  
30,29,58,61,1,1  
30,1,58,61,1,29  
1,29,58,61,30,1  
1,1,58,61,30,29